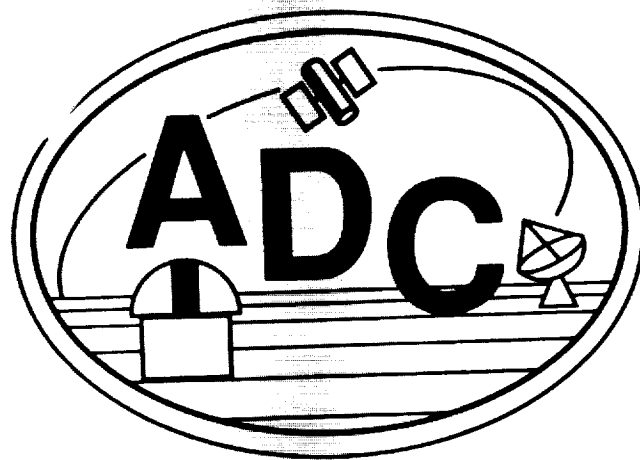


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May 1993

Cordoba Durchmusterung

Volume I



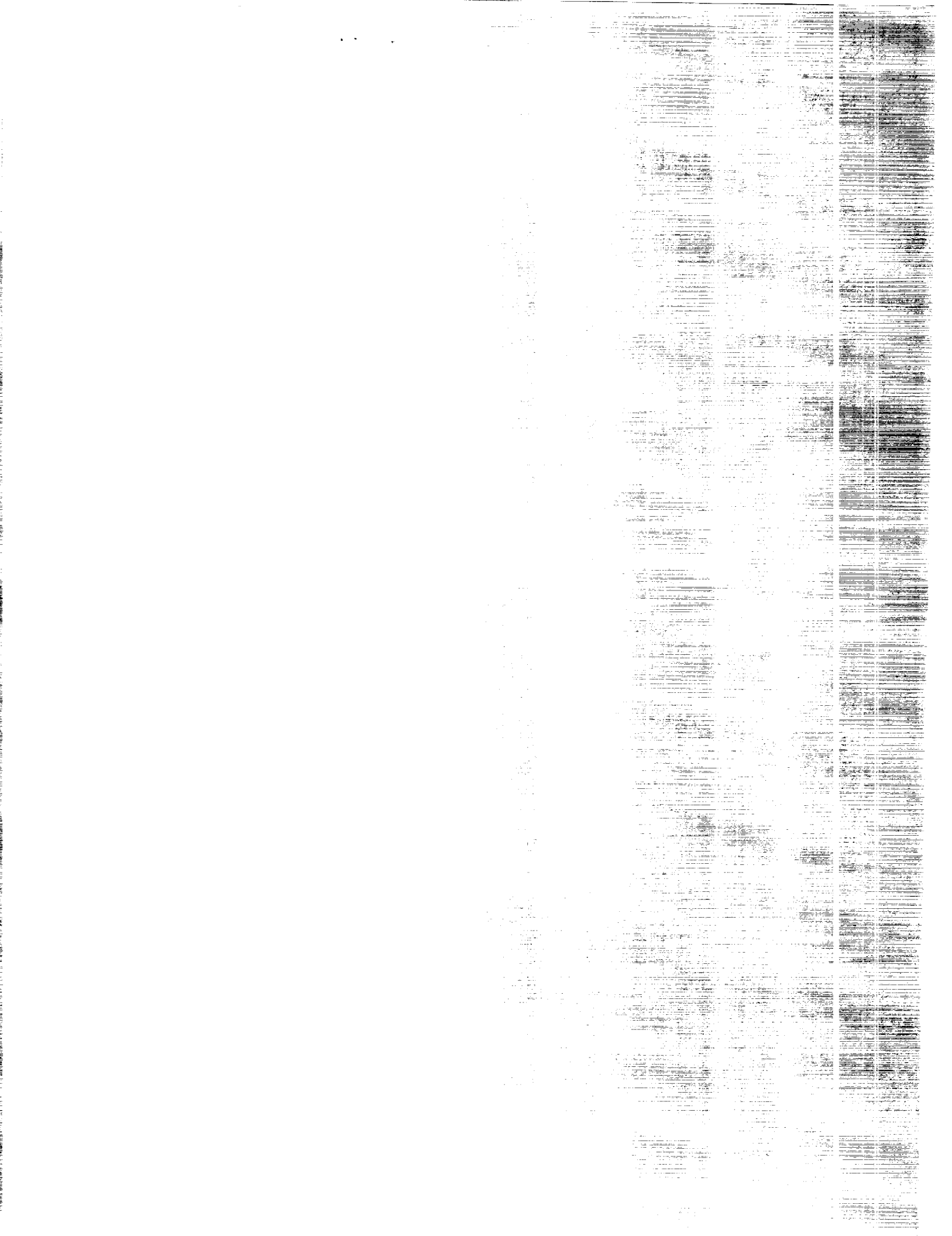
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DURCHMUSTERUNG, VOLUME 1 (NASA)
454 p

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Errata

The series of NASA Reference Publications numbered RP 1297 through 1300 has been printed without the final page of tabular information in each volume. The series consists of the following titles:

| Document | Title | Volume | Pg. missing |
|----------|--------------------------------------------------------------------|------------|-------------|
| RP 1297 | <i>Bonner Durchmusterung</i> | Volume I | p. 457 |
| | | Volume II | p. 447 |
| RP 1298 | <i>Borner Durchmusterung</i> (<i>Southern Durchmusterung</i>) | Volume III | p. 375 |
| RP 1299 | <i>Cordoba Durchmusterung</i> | Volume I | p. 446 |
| | | Volume II | p. 415 |
| | | Volume III | p. 424 |
| | | Volume IV | p. 423 |
| RP 1300 | <i>Cape Photographic Durchmusterung</i> | Volume I | p. 424 |
| | | Volume II | p. 440 |
| | | Volume III | p. 401 |

Please insert these pages in all copies of the series. We regret any inconvenience this has caused.

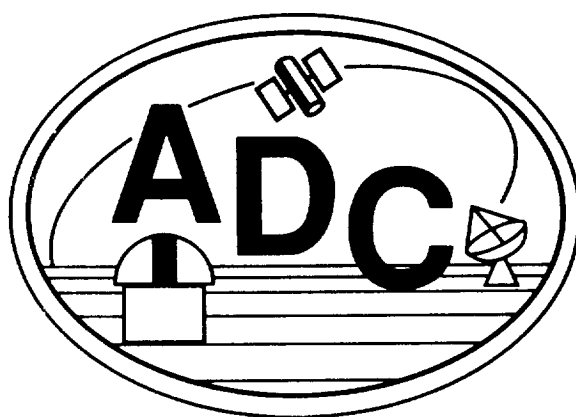
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Reference
Publication
1299, Vol. I

1993

Cordoba Durchmusterung

Volume I

Compiled by
Astronomical Data Center,
National Space Science Data Center
Goddard Space Flight Center
Greenbelt, Maryland



NASA

National Aeronautics and
Space Administration
Office of Management
Scientific and Technical
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Cordoba Durchmusterung Volume I

1 Introduction

The "Cordoba Durchmusterung" (CD, Thome 1892-1932) is a visual survey of southern stars in the declination zones -22 to -89 deg, carried out as an extension to the "Bonner Durchmusterung" (BD) catalogs of Argelander (1859-1862) (see also Kuestner 1903) and Schoenfeld (1886). The survey was performed using techniques similar to those used for the BD, i.e., the stars were cataloged by allowing the telescope to drift along the mean declination of each zone and recording the positions and magnitudes of stars crossing the transit line of the field. The goal of the survey was to obtain a position and estimated visual magnitude for every star down to 10.0 magnitude inclusive, but the faint limit was confirmed from comparisons with other catalogs, to be somewhat below 10. The positional uncertainties quoted in the original publications are $\pm 0.42''$ and $\pm 0.23'$ for zones -22° to -32° . A list of all corrections made to the original data as a result of published corrigenda is presented in Section 3. No other corrections or changes have been incorporated into the original data, e.g., from more modern positions and magnitudes or comparison with the "Cape Photographic Durchmusterung" (Gill and Kapteyn 1895-1900). For a more detailed description of how the observations were made and for additional statistics of star counts and distribution within each zone, the source reference should be consulted.

2 Source Reference

Thome, J. M. 1892-1932, Cordoba Durchmusterung, Resultados del Observatorio Nacional Argentino 16 (1892, Part I: -22 to -32 deg), 17 (1894, Part II: -32 to -42 deg), 18 (1900, Part III: -42 to -52 deg), 21 (Part I) (1914, Part IV, -52 to -62 deg), 21 (Part II) (1932, Part V: -62 to

Data are present for all stars in the catalog except a few which have been deleted in the corrigenda; these have been flagged by a "D" following the number of each respective record, but the records and data have been left in the machine version in order not to change the star counts and numerical sequencing.

3 The Catalog

As in the original version, the positions are for the equinox 1875. Each page is headed by two entries giving the DM number and right ascension for the first and last entries on the page, respectively.

4 Changes Made to the Catalog

| CD Number | Field | From | To | | |
|-----------|-------|-----------------|------|---------------------------------------------------|----------------------------------|
| -22 | 388 | DEC | 31.1 | 41.1 | |
| -22 | 450 | MAG | 9.1 | 9.7 | |
| -22 | 868 | DEC | 22.9 | 32.9 | |
| -22 | 1706 | RA _s | 23.6 | 24.6 | |
| -22 | 1878 | MAG | 10.0 | 9.5 | |
| -22 | 1953 | RA _s | 49.6 | 48.6 | |
| -22 | 4463 | RA _m | 19 | 18 | |
| -22 | 4463 | RA _s | 1.9 | 59.9 | |
| -22 | 4783 | MAG | 10.0 | 9.3 | |
| -22 | 5083 | MAG | 8.8 | 9.0 | |
| -22 | 5318 | MAG | 9.6 | 9.0 | |
| -22 | 5374 | MAG | 3.7 | 9.7 | |
| -22 | 5519 | DEC | 40.2 | 10.2 | |
| -22 | 5844 | MAG | 9.2 | 9.0 | |
| -22 | 6170 | MAG | 8.8 | 8.6 | |
| -22 | 6855 | MAG | 8.0 | 7.8 | |
| -22 | 7617 | | | Delete data: does not exist. "D" after CD number. | |
| -22 | 7727 | MAG | 8.9 | 9.9 | |
| -22 | 8296 | MAG | 7.4 | 7.2 | |
| -22 | 8781 | MAG | 9.1 | 9.8 | |
| -22 | 11136 | RA _m | 33 | 34 | |
| -22 | 11136 | RA _s | 57.0 | 0.0 | Puts out of order with 11137-38. |
| -22 | 11967 | RA _s | 23.6 | 20.6 | Puts out of order with 11966. |
| -22 | 13043 | RA _s | 7.6 | 7.0 | |
| -22 | 13222 | RA _s | 26.4 | 56.4 | |
| -22 | 13843 | MAG | 5.9 | 8.9 | |
| -22 | 14424 | RA _s | 22.0 | 23.0 | |
| -22 | 14639 | RA _s | 24.9 | 34.9 | |
| -23 | 139 | DEC | 50.3 | 59.3 | |
| -23 | 2075 | DEC | 35.1 | 34.1 | |
| -23 | 2087 | MAG | 9.1 | 9.9 | |
| -23 | 3316 | MAG | 8.3 | 9.9 | |
| -23 | 5827 | RA _s | 13.9 | 8.9 | Puts out of order with 5826. |
| -23 | 5830 | RA _s | 17.2 | 15.2 | Puts out of order with 5829. |
| -23 | 6096 | DEC | 36.2 | 39.2 | |
| -23 | 6634 | MAG | 9.0 | 9.9 | |
| -23 | 13830 | MAG | 18.0 | 10.0 | |

| CD Number | Field | From | To | |
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| -23 | 15307 | MAG | 7.7 | 7.9 |
| -23 | 15416 | MAG | 9.0 | 9.6 |
| -23 | 17109 | DEC | 28.6 | 18.6 |
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| -24 | 2192 | MAG | 8.7 | 9.7 |
| -24 | 2355 | MAG | 9.5 | 9.9 |
| -24 | 3256 | MAG | 9.0 | 9.9 |
| -24 | 3886 | MAG | 8.6 | 9.6 |
| -24 | 4012 | MAG | 10.0 | 9.8 |
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| -24 | 4514 | DEC | 4.6 | 40.6 |
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| -24 | 5358 | RAs | 42.6 | 52.6 |
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| -24 | 12791 | MAG | 10.0 | 9.5 |
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| -27 | 5589 | MAG | 9.4 | 9.9 |
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| -27 | 7227 | DEC | 4.6 | 3.6 |
| -27 | 7792 | MAG | 8.7 | 9.0 |
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| -30 | 19392 | MAG | 9.5 | 9.0 |

5 Acknowledgments

This immense project was successfully completed through the efforts of many people, without whose help the finished catalog would not now or possibly ever have reached fruition. Although the work was initiated and supervised by Jaylee M. Mead, Theresa A. Nagy and Wayne H. Warren, Jr., the punching could never have been begun and the project completed without the support and encouragement of the NSSDC Director James I. Vette. The keypunching was done at NSSDC by Beth Alexander, Carol Bergstrom and Margy Goodwin, while the monitoring software for the data transfer was written by Frank Barnes with contributions by Eugene Scarzafava, and data migration to tape was done by Charleen Perry with assistance and supervision by Ralph Post. Proofreading of individual zones was contributed by Scott Birney (Wellesley College), Richard Dietz (University of Northern Colorado), Mati Morel (Rankin Park, NSW, Australia), Theresa Nagy (ADC), Sidney Parsons (Space Telescope Science Institute), William Stein (U. S. Naval Surface Weapons Laboratory, Dahlgren, VA), George Wolf (Southwest Missouri State University), and Wayne Warren, Jr. Additional zones not returned by other volunteers were proofread at the ADC by summer students Paula Feldman and Kimberly Kniffen, who also assisted greatly with error checking, recording, and data correction. Checking and recording were also done at the ADC by Rajendra Nigam, Charleen Perry and Wayne Warren. The hard copy version was prepared by Nancy G. Roman. The material in this introduction is taken from the document prepared for the machine readable copy by Wayne H. Warren, Jr.

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-22 2880 6h08m

-22 2881 6h08m

-22 3240 6h29m

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| 3245 | 9.9 | 63012.3 -2226.1 | 3335 | 10.0 | 63444.0 -2207.6 | 3425 | 10.0 | 63850.5 -2253.2 |
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| 3248 | 9.5 | 63022.5 -2217.1 | 3338 | 9.8 | 63449.1 -2231.3 | 3428 | 8.4 | 63857.1 -2226.9 |
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| 3252 | 9.3 | 63043.9 -2208.2 | 3342 | 9.7 | 63501.2 -2207.3 | 3432 | 10.0 | 63902.7 -2202.8 |
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| 3255 | 9.8 | 63053.9 -2248.3 | 3345 | 10.0 | 63513.0 -2219.8 | 3435 | 10.0 | 63909.1 -2213.0 |
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-22 9721 12h55m

-2210080 13h36m

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| 9773 9.7 130218.3 -2244.5 | 9863 9.6 131242.0 -2255.1 | 9953 9.7 132215.4 -2251.1 | 10043 9.7 133147.5 -2258.2 |
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-2210081 13h56m

-2210440 14h16m

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| 10093 9.7 133733.2 -2239.9 | 10183 9.6 134821.9 -2218.4 | 10273 10.0 135746.3 -2212.9 | 10363 10.0 140624.6 -2251.1 |
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| 10101 10.0 133834.3 -2247.2 | 10191 10.0 134900.0 -2255.9 | 10281 9.6 135824.5 -2259.5 | 10371 9.8 140710.5 -2226.6 |
| 10102 9.6 133838.8 -2218.3 | 10192 9.7 134908.2 -2227.2 | 10282 8.6 135824.6 -2254.0 | 10372 9.7 140712.1 -2208.9 |
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| 10108 9.7 133924.3 -2252.6 | 10198 9.9 134926.0 -2230.6 | 10288 9.7 135901.7 -2200.3 | 10378 9.6 140739.8 -2206.9 |
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-2210801 14h55m

-2211160 15h36m

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12184 9.8 173427.2 -2215.5
12185 10.0 173435.3 -2238.2
12186 9.3 173440.9 -2205.0
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12189 10.0 173536.1 -2213.8
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12203 10.0 173724.6 -2209.0
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12216 9.3 173839.7 -2238.2
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12219 9.4 173844.7 -2245.9
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12223 9.9 173913.8 -2217.3
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12229 9.6 173945.8 -2210.6
12230 9.3 173945.9 -2222.4

12231 9.3 173946.5 -2201.6
12232 10.0 173947.5 -2243.8
12233 9.6 173950.4 -2233.6
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12240 9.1 174026.9 -2237.2

-2212240 17h40m

-2212241 17h00m

-2212600 18h00m

| | | | | | | | | | | | | | | | |
|-------|------|----------|---------|-------|------|----------|---------|-------|------|----------|---------|-------|------|----------|---------|
| 12241 | 9.7 | 174026.9 | -2232.6 | 12331 | 9.9 | 174636.9 | -2217.5 | 12421 | 9.8 | 175328.0 | -2224.4 | 12511 | 9.5 | 175643.0 | -2203.3 |
| 12242 | 10.0 | 174034.9 | -2239.8 | 12332 | 9.6 | 174639.2 | -2240.8 | 12422 | 8.6 | 175333.4 | -2235.2 | 12512 | 9.2 | 175644.4 | -2229.3 |
| 12243 | 9.7 | 174035.5 | -2250.9 | 12333 | 10.0 | 174641.7 | -2252.5 | 12423 | 9.7 | 175334.3 | -2214.6 | 12513 | 9.8 | 175645.2 | -2230.4 |
| 12244 | 9.6 | 174040.3 | -2205.0 | 12334 | 9.5 | 174649.6 | -2231.3 | 12424 | 10.0 | 175335.3 | -2237.2 | 12514 | 9.7 | 175647.1 | -2229.4 |
| 12245 | 10.0 | 174045.0 | -2255.8 | 12335 | 9.7 | 174651.9 | -2236.5 | 12425 | 10.0 | 175339.9 | -2234.2 | 12515 | 9.5 | 175649.8 | -2225.8 |
| 12246 | 9.8 | 174049.2 | -2204.0 | 12336 | 9.8 | 174652.8 | -2254.3 | 12426 | 9.8 | 175340.6 | -2210.2 | 12516 | 9.6 | 175654.3 | -2225.8 |
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| 12249 | 9.4 | 174058.4 | -2230.3 | 12339 | 10.0 | 174722.1 | -2226.7 | 12429 | 9.7 | 175345.3 | -2259.2 | 12519 | 9.6 | 175701.7 | -2222.6 |
| 12250 | 9.8 | 174103.2 | -2242.5 | 12340 | 8.2 | 174725.6 | -2257.5 | 12430 | 10.0 | 175358.1 | -2220.9 | 12520 | 9.6 | 175712.4 | -2226.8 |
| 12251 | 10.0 | 174110.1 | -2244.5 | 12341 | 9.8 | 174730.2 | -2218.6 | 12431 | 9.5 | 175358.9 | -2218.9 | 12521 | 10.0 | 175713.5 | -2236.3 |
| 12252 | 10.0 | 174113.2 | -2249.0 | 12342 | 9.8 | 174734.7 | -2221.4 | 12432 | 9.8 | 175359.9 | -2213.0 | 12522 | 9.7 | 175717.8 | -2243.0 |
| 12253 | 10.0 | 174124.5 | -2216.4 | 12343 | 9.4 | 174737.0 | -2203.5 | 12433 | 9.6 | 175400.8 | -2259.2 | 12523 | 9.7 | 175718.7 | -2256.1 |
| 12254 | 10.0 | 174128.8 | -2258.8 | 12344 | 9.8 | 174752.8 | -2211.5 | 12434 | 9.8 | 175404.8 | -2238.2 | 12524 | 9.8 | 175719.8 | -2231.8 |
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| 12256 | 10.0 | 174141.7 | -2219.8 | 12346 | 9.7 | 174800.8 | -2207.5 | 12436 | 8.0 | 175406.9 | -2207.2 | 12526 | 9.9 | 175723.3 | -2210.7 |
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| 12258 | 9.7 | 174207.5 | -2208.3 | 12348 | 10.0 | 174803.9 | -2217.4 | 12438 | 9.8 | 175414.2 | -2248.0 | 12528 | 9.9 | 175734.2 | -2255.4 |
| 12259 | 10.0 | 174209.0 | -2216.1 | 12349 | 9.3 | 174806.7 | -2223.3 | 12439 | 10.0 | 175417.0 | -2208.2 | 12529 | 9.9 | 175735.6 | -2229.1 |
| 12260 | 9.8 | 174212.4 | -2204.0 | 12350 | 9.5 | 174806.9 | -2251.9 | 12440 | 9.8 | 175418.6 | -2227.2 | 12530 | 9.3 | 175740.0 | -2224.4 |
| 12261 | 9.9 | 174216.2 | -2233.3 | 12351 | 10.0 | 174807.0 | -2253.9 | 12441 | 6.3 | 175420.5 | -2245.9 | 12531 | 9.8 | 175741.6 | -2228.7 |
| 12262 | 9.8 | 174216.2 | -2254.2 | 12352 | 9.7 | 174815.2 | -2237.2 | 12442 | 9.8 | 175426.8 | -2221.6 | 12532 | 9.8 | 175742.2 | -2250.6 |
| 12263 | 10.0 | 174216.5 | -2231.4 | 12353 | 10.0 | 174817.6 | -2244.2 | 12443 | 9.8 | 175426.8 | -2238.0 | 12533 | 10.0 | 175743.4 | -2236.6 |
| 12264 | 9.5 | 174224.7 | -2239.4 | 12354 | 9.8 | 174834.3 | -2240.5 | 12444 | 9.6 | 175428.0 | -2236.3 | 12534 | 9.5 | 175744.5 | -2207.2 |
| 12265 | 10.0 | 174234.7 | -2250.5 | 12355 | 10.0 | 174835.8 | -2217.8 | 12445 | 10.0 | 175430.2 | -2214.1 | 12535 | 9.7 | 175754.0 | -2255.1 |
| 12266 | 10.0 | 174236.1 | -2248.0 | 12356 | 7.9 | 174837.5 | -2226.3 | 12446 | 10.0 | 175431.2 | -2246.5 | 12536 | 9.7 | 175755.8 | -2241.8 |
| 12267 | 10.0 | 174239.4 | -2221.4 | 12357 | 9.7 | 174839.1 | -2235.9 | 12447 | 10.0 | 175432.2 | -2248.0 | 12537 | 9.6 | 175756.2 | -2230.0 |
| 12268 | 10.0 | 174240.2 | -2201.6 | 12358 | 9.6 | 174844.0 | -2200.2 | 12448 | 10.0 | 175434.8 | -2251.4 | 12538 | 10.0 | 175757.4 | -2222.6 |
| 12269 | 9.3 | 174244.0 | -2255.1 | 12359 | 9.7 | 174845.7 | -2235.3 | 12449 | 9.8 | 175436.3 | -2242.3 | 12539 | 10.0 | 175758.2 | -2245.7 |
| 12270 | 9.7 | 174250.1 | -2218.8 | 12360 | 9.3 | 174850.9 | -2246.3 | 12450 | 9.6 | 175440.3 | -2257.7 | 12540 | 10.0 | 175804.8 | -2222.6 |
| 12271 | 9.3 | 174253.6 | -2239.1 | 12361 | 9.8 | 174853.2 | -2235.6 | 12451 | 9.8 | 175440.3 | -2201.8 | 12541 | 9.9 | 175806.4 | -2241.6 |
| 12272 | 10.0 | 174303.9 | -2207.0 | 12362 | 9.9 | 174858.8 | -2257.8 | 12452 | 9.8 | 175443.0 | -2218.6 | 12542 | 10.0 | 175808.4 | -2204.0 |
| 12273 | 9.8 | 174305.5 | -2252.9 | 12363 | 10.0 | 174912.4 | -2240.2 | 12453 | 9.7 | 175444.1 | -2228.4 | 12543 | 9.6 | 175809.0 | -2218.5 |
| 12274 | 9.8 | 174311.2 | -2221.1 | 12364 | 9.9 | 174916.3 | -2202.2 | 12454 | 9.2 | 175445.3 | -2219.6 | 12544 | 9.7 | 175810.8 | -2251.7 |
| 12275 | 9.8 | 174313.9 | -2222.6 | 12365 | 9.8 | 174917.0 | -2253.6 | 12455 | 10.0 | 175446.2 | -2241.2 | 12545 | 10.0 | 175812.7 | -2240.3 |
| 12276 | 9.7 | 174314.3 | -2216.8 | 12366 | 9.6 | 174945.6 | -2221.2 | 12456 | 9.4 | 175455.9 | -2257.4 | 12546 | 9.7 | 175818.3 | -2241.0 |
| 12277 | 9.7 | 174314.7 | -2255.3 | 12367 | 10.0 | 174945.9 | -2240.1 | 12457 | 7.8 | 175457.2 | -2253.9 | 12547 | 8.9 | 175818.8 | -2212.7 |
| 12278 | 9.4 | 174318.0 | -2237.0 | 12368 | 10.0 | 174947.4 | -2224.1 | 12458 | 9.6 | 175459.8 | -2245.5 | 12548 | 9.6 | 175822.4 | -2238.2 |
| 12279 | 7.4 | 174333.0 | -2252.3 | 12369 | 9.7 | 174952.5 | -2238.9 | 12459 | 9.7 | 175501.0 | -2259.4 | 12549 | 10.0 | 175822.8 | -2237.0 |
| 12280 | 9.7 | 174342.5 | -2229.9 | 12370 | 9.4 | 175003.7 | -2252.3 | 12460 | 9.9 | 175502.0 | -2227.8 | 12550 | 9.5 | 175829.0 | -2258.3 |
| 12281 | 10.0 | 174345.5 | -2208.5 | 12371 | 10.0 | 175004.9 | -2239.3 | 12461 | 9.7 | 175504.1 | -2221.2 | 12551 | 9.9 | 175830.5 | -2227.5 |
| 12282 | 9.8 | 174347.7 | -2238.8 | 12372 | 10.0 | 175010.7 | -2232.0 | 12462 | 9.7 | 175505.5 | -2211.7 | 12552 | 8.9 | 175833.4 | -2207.2 |
| 12283 | 9.7 | 174348.9 | -2227.5 | 12373 | 9.1 | 175011.4 | -2212.2 | 12463 | 9.5 | 175510.0 | -2205.2 | 12553 | 9.6 | 175835.0 | -2219.2 |
| 12284 | 10.0 | 174354.4 | -2218.8 | 12374 | 9.6 | 175012.5 | -2241.1 | 12464 | 9.7 | 175510.4 | -2244.7 | 12554 | 9.3 | 175837.6 | -2228.1 |
| 12285 | 9.9 | 174355.4 | -2257.2 | 12375 | 9.6 | 175015.8 | -2203.8 | 12465 | 10.0 | 175512.7 | -2200.1 | 12555 | 10.0 | 175844.6 | -2259.8 |
| 12286 | 9.4 | 174358.1 | -2226.3 | 12376 | 9.1 | 175020.6 | -2232.7 | 12466 | 10.0 | 175517.8 | -2239.4 | 12556 | 9.3 | 175848.6 | -2243.6 |
| 12287 | 10.0 | 174359.5 | -2246.0 | 12377 | 8.8 | 175020.9 | -2257.5 | 12467 | 10.0 | 175518.8 | -2238.2 | 12557 | 10.0 | 175900.7 | -2236.4 |
| 12288 | 10.0 | 174412.6 | -2249.5 | 12378 | 9.5 | 175029.0 | -2209.2 | 12468 | 10.0 | 175521.1 | -2238.2 | 12558 | 9.8 | 175903.0 | -2243.0 |
| 12289 | 9.8 | 174415.7 | -2221.8 | 12379 | 9.8 | 175039.7 | -2233.9 | 12469 | 9.6 | 175522.4 | -2233.8 | 12559 | 9.9 | 175911.0 | -2223.4 |
| 12290 | 9.7 | 174418.2 | -2237.5 | 12380 | 10.0 | 175057.0 | -2218.1 | 12470 | 9.8 | 175523.0 | -2216.6 | 12560 | 8.0 | 175912.4 | -2228.3 |
| 12291 | 10.0 | 174420.6 | -2252.9 | 12381 | 9.5 | 175057.3 | -2246.0 | 12471 | 9.7 | 175523.1 | -2252.1 | 12561 | 7.9 | 175917.9 | -2202.6 |
| 12292 | 9.7 | 174423.0 | -2257.8 | 12382 | 10.0 | 175058.1 | -2229.0 | 12472 | 9.8 | 175526.4 | -2228.1 | 12562 | 9.4 | 175919.7 | -2236.4 |
| 12293 | 9.6 | 174432.9 | -2238.8 | 12383 | 9.7 | 175101.3 | -2237.4 | 12473 | 7.0 | 175527.8 | -2242.7 | 12563 | 9.8 | 175919.7 | -2255.7 |
| 12294 | 10.0 | 174436.6 | -2230.0 | 12384 | 9.5 | 175114.3 | -2248.0 | 12474 | 10.0 | 175528.0 | -2247.6 | 12564 | 9.6 | 175921.0 | -2204.8 |
| 12295 | 9.7 | 174437.8 | -2224.3 | 12385 | 9.7 | 175120.5 | -2231.0 | 12475 | 10.0 | 175530.9 | -2245.0 | 12565 | 10.0 | 175922.5 | -2215.7 |
| 12296 | 9.6 | 174442.5 | -2206.5 | 12386 | 7.2 | 175123.9 | -2230.7 | 12476 | 10.0 | 175537.3 | -2236.3 | 12566 | 9.8 | 175931.0 | -2215.4 |
| 12297 | 7.5 | 174445.4 | -2238.1 | 12387 | 9.0 | 175125.9 | -2221.9 | 12477 | 9.7 | 175538.9 | -2240.3 | 12567 | 9.6 | 175931.7 | -2224.8 |
| 12298 | 9.8 | 174449.4 | -2243.5 | 12388 | 9.8 | 175139.4 | -2205.2 | 12478 | 9.5 | 175540.0 | -2249.6 | 12568 | 8.6 | 175932.7 | -2224.7 |
| 12299 | 9.4 | 174452.4 | -2250.9 | 12389 | 10.0 | 175142.5 | -2208.7 | 12479 | 9.5 | 175544.2 | -2200.8 | 12569 | 10.0 | 175933.8 | -2235.2 |
| 12300 | 9.0 | 174459.9 | -2238.2 | 12390 | 9.8 | 175147.3 | -2222.2 | 12480 | 8.0 | 175544.1 | -2253.1 | 12570 | 9.4 | 175934.3 | -2241.2 |
| 12301 | 9.8 | 174503.2 | -2237.4 | 12391 | 9.7 | 175149.2 | -2206.8 | 12481 | 8.6 | 175551.0 | -2237.0 | 12571 | 9.8 | 175936.1 | -2211.3 |
| 12302 | 10.0 | 174517.2 | -2222.2 | 12392 | 7.5 | 175153.4 | -2227.1 | 12482 | 9.3 | 175552.0 | -2218.5 | 12572 | 9.9 | 175936.2 | -2239.8 |
| 12303 | 10.0 | 174521.1 | -2222.1 | 12393 | 8.8 | 175202.9 | -2258.8 | 12483 | 9.7 | 175552.7 | -2213.7 | 12573 | 9.7 | 175939.6 | -2259.6 |
| 12304 | 9.6 | 174523.6 | -2216.8 | 12394 | 8.9 | 175205.8 | -2256.5 | 12484 | 10.0 | 175556.2 | -2219.6 | 12574 | 9.9 | 175944.8 | -2256.0 |
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| 12310 | 8.4 | 174541.0 | -2229.9 | 12400 | 9.5 | 175227.2 | -2217.6 | 12490 | 9.4 | 175609.3 | -2230.4 | 12580 | 9.9 | 180004.5 | -2239.7 |
| 12311 | 9.7 | 174542.6 | -2257.8 | 12401 | 7.6 | 175227.5 | -2232.1 | 12491 | 9.5 | 175609.7 | -2227.8 | 12581 | 9.4 | | |

-2212601 18h00m

12601 9.4 180059.6 -2242.7
12602 9.8 180102.4 -2219.6
12603 9.8 180104.2 -2221.6
12604 9.8 180106.3 -2254.2
12605 9.5 180108.1 -2216.9
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12623 9.9 180155.5 -2228.4
12624 9.8 180157.3 -2230.4
12625 9.8 180202.4 -2235.2
12626 9.8 180203.2 -2253.1
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12657 9.5 180311.6 -2212.9
12658 7.8 180312.0 -2215.3
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-2213320 18h42m

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-2215841 22h12m

-2216200 23h01m

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-23 347 0h48m

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-23 3947 6h25m

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-2310068 11h29m

-2310427 12h06m

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-2310428 12h06m

-2310787 12h46m

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-2312227 15h14m

-2312228 15h14m

-2312587 15h48m

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| 12267 | 10.0 | 151723.0 | -2328.4 | 12357 | 9.3 | 152436.5 | -2327.4 | 12447 | 8.4 | 153212.6 | -2323.4 | 12537 | 9.9 | 154227.1 | -2300.2 |
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-2315467 19h22m

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-24 2010 5h53m

-24 2369 4h23m

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-24 3449 5h43m

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4154 9.6 62742.4 -2453.8
4155 9.0 62747.1 -2452.1
4156 9.5 62751.1 -2423.9
4157 9.6 62754.4 -2417.9
4158 10.0 62800.2 -2444.6
4159 10.0 62804.2 -2434.1

4160 9.0 62807.1 -2422.2
4161 9.8 62809.5 -2442.6
4162 9.3 62812.4 -2454.8
4163 9.6 62814.7 -2425.9
4164 9.8 62814.8 -2429.3
4165 9.6 62818.4 -2414.6
4166 9.6 62818.5 -2445.1
4167 8.2 62819.0 -2407.4
4168 10.0 62819.9 -2453.9
4169 9.3 62820.2 -2438.6

-24 4170 6h28m

-24 4529 6h46m

| | | | | | | | | | | | |
|-----------|---------|---------|-----------|---------|---------|-----------|---------|---------|-----------|---------|---------|
| 4170 10.0 | 62822.1 | -2428.6 | 4260 9.9 | 63320.3 | -2418.0 | 4350 9.5 | 63745.1 | -2403.5 | 4440 10.0 | 64236.1 | -2407.4 |
| 4171 10.0 | 62832.0 | -2431.7 | 4261 9.8 | 63320.4 | -2412.5 | 4351 9.6 | 63748.8 | -2431.0 | 4441 9.0 | 64236.1 | -2410.4 |
| 4172 10.0 | 62833.7 | -2447.0 | 4262 10.0 | 63323.3 | -2422.3 | 4352 9.0 | 63753.6 | -2456.8 | 4442 8.8 | 64237.7 | -2436.1 |
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| 4176 10.0 | 62848.5 | -2447.4 | 4266 10.0 | 63332.9 | -2405.8 | 4356 9.6 | 63802.4 | -2419.1 | 4446 9.7 | 64254.2 | -2439.6 |
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| 4179 9.9 | 62907.2 | -2428.9 | 4269 9.8 | 63347.3 | -2459.2 | 4359 10.0 | 63817.8 | -2407.5 | 4449 9.8 | 64303.2 | -2455.1 |
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| 4183 9.8 | 62925.0 | -2426.9 | 4273 8.8 | 63357.1 | -2414.5 | 4363 9.4 | 63826.3 | -2419.8 | 4453 8.9 | 64308.0 | -2425.6 |
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| 4188 10.0 | 62937.7 | -2402.3 | 4278 10.0 | 63404.0 | -2415.0 | 4368 10.0 | 63850.4 | -2414.5 | 4458 10.0 | 64335.7 | -2413.9 |
| 4189 9.4 | 62945.0 | -2429.6 | 4279 10.0 | 63405.9 | -2412.0 | 4369 9.5 | 63851.9 | -2450.4 | 4459 9.1 | 64344.6 | -2451.8 |
| 4190 9.8 | 62946.0 | -2426.6 | 4280 10.0 | 63406.4 | -2432.6 | 4370 9.7 | 63852.0 | -2400.0 | 4460 10.0 | 64346.6 | -2410.4 |
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| 4193 8.8 | 62957.4 | -2419.0 | 4283 9.8 | 63414.3 | -2428.9 | 4373 9.6 | 63900.3 | -2409.5 | 4463 9.1 | 64358.9 | -2428.0 |
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| 4195 9.5 | 63000.5 | -2428.1 | 4285 10.0 | 63417.6 | -2403.1 | 4375 10.0 | 63908.9 | -2455.4 | 4465 10.0 | 64404.6 | -2407.4 |
| 4196 9.3 | 63004.4 | -2448.1 | 4286 10.0 | 63419.9 | -2457.8 | 4376 9.8 | 63911.6 | -2423.7 | 4466 9.5 | 64406.4 | -2418.4 |
| 4197 10.0 | 63008.5 | -2408.8 | 4287 10.0 | 63421.1 | -2428.9 | 4377 10.0 | 63913.0 | -2457.4 | 4467 9.6 | 64407.9 | -2414.4 |
| 4198 8.6 | 63010.9 | -2436.1 | 4288 10.0 | 63421.5 | -2432.1 | 4378 10.0 | 63913.4 | -2419.8 | 4468 9.5 | 64409.9 | -2416.4 |
| 4199 10.0 | 63012.2 | -2447.6 | 4289 10.0 | 63425.1 | -2422.3 | 4379 10.0 | 63921.9 | -2418.4 | 4469 10.0 | 64411.5 | -2406.9 |
| 4200 9.8 | 63016.4 | -2428.6 | 4290 10.0 | 63426.2 | -2403.5 | 4380 9.8 | 63923.4 | -2403.4 | 4470 10.0 | 64414.8 | -2408.4 |
| 4201 10.0 | 63024.3 | -2446.4 | 4291 8.9 | 63431.3 | -2444.1 | 4381 10.0 | 63929.2 | -2454.8 | 4471 10.0 | 64415.0 | -2436.6 |
| 4202 9.8 | 63028.7 | -2429.2 | 4292 8.8 | 63436.1 | -2446.1 | 4382 9.7 | 63930.6 | -2422.0 | 4472 10.0 | 64417.0 | -2424.1 |
| 4203 9.4 | 63035.2 | -2421.6 | 4293 9.1 | 63443.0 | -2433.6 | 4383 10.0 | 63932.4 | -2412.3 | 4473 10.0 | 64422.5 | -2458.2 |
| 4204 10.0 | 63036.9 | -2429.6 | 4294 10.0 | 63444.3 | -2409.5 | 4384 10.0 | 63936.1 | -2401.4 | 4474 10.0 | 64423.2 | -2455.4 |
| 4205 10.0 | 63040.2 | -2449.4 | 4295 9.7 | 63446.2 | -2415.5 | 4385 10.0 | 63943.2 | -2435.1 | 4475 10.0 | 64425.2 | -2413.4 |
| 4206 9.6 | 63048.4 | -2405.3 | 4296 9.8 | 63446.7 | -2421.5 | 4386 9.4 | 63943.7 | -2407.9 | 4476 8.3 | 64425.6 | -2404.9 |
| 4207 9.7 | 63050.4 | -2433.6 | 4297 9.7 | 63448.1 | -2444.6 | 4387 9.3 | 63949.2 | -2455.3 | 4477 9.7 | 64428.8 | -2441.1 |
| 4208 9.3 | 63053.1 | -2401.4 | 4298 10.0 | 63450.0 | -2449.9 | 4388 9.8 | 63952.2 | -2431.1 | 4478 10.0 | 64430.9 | -2422.1 |
| 4209 7.7 | 63054.8 | -2400.5 | 4299 10.0 | 63456.7 | -2415.5 | 4389 9.8 | 63952.9 | -2453.8 | 4479 9.8 | 64438.7 | -2409.9 |
| 4210 7.2 | 63057.1 | -2445.4 | 4300 9.2 | 63458.0 | -2433.6 | 4390 10.0 | 63958.7 | -2429.6 | 4480 8.3 | 64441.1 | -2451.8 |
| 4211 8.9 | 63101.4 | -2420.0 | 4301 10.0 | 63458.3 | -2404.0 | 4391 9.8 | 63958.8 | -2412.4 | 4481 9.6 | 64442.0 | -2416.7 |
| 4212 9.6 | 63108.9 | -2428.6 | 4302 9.6 | 63504.3 | -2444.1 | 4392 9.0 | 64001.4 | -2405.9 | 4482 9.7 | 64443.8 | -2410.9 |
| 4213 9.7 | 63109.5 | -2411.3 | 4303 10.0 | 63505.4 | -2407.5 | 4393 9.0 | 64002.0 | -2428.6 | 4483 9.6 | 64446.8 | -2448.8 |
| 4214 10.0 | 63111.4 | -2433.6 | 4304 10.0 | 63506.6 | -2421.1 | 4394 10.0 | 64002.3 | -2400.0 | 4484 10.0 | 64448.5 | -2429.6 |
| 4215 9.7 | 63112.6 | -2410.3 | 4305 8.8 | 63509.1 | -2446.1 | 4395 10.0 | 64003.1 | -2417.8 | 4485 9.0 | 64453.2 | -2455.2 |
| 4216 10.0 | 63116.2 | -2402.8 | 4306 10.0 | 63511.6 | -2421.1 | 4396 10.0 | 64005.2 | -2453.1 | 4486 9.8 | 64457.3 | -2418.8 |
| 4217 10.0 | 63117.3 | -2448.1 | 4307 9.7 | 63512.8 | -2457.2 | 4397 9.3 | 64005.3 | -2402.9 | 4487 10.0 | 64502.9 | -2455.4 |
| 4218 9.4 | 63119.5 | -2453.4 | 4308 10.0 | 63514.6 | -2425.7 | 4398 9.8 | 64006.5 | -2455.5 | 4488 10.0 | 64503.1 | -2416.9 |
| 4219 10.0 | 63125.1 | -2456.8 | 4309 10.0 | 63514.8 | -2400.0 | 4399 10.0 | 64008.0 | -2405.4 | 4489 9.0 | 64503.8 | -2442.1 |
| 4220 9.1 | 63129.1 | -2405.8 | 4310 10.0 | 63518.6 | -2454.4 | 4400 10.0 | 64008.5 | -2419.1 | 4490 9.8 | 64504.6 | -2414.9 |
| 4221 10.0 | 63134.6 | -2454.6 | 4311 10.0 | 63520.1 | -2409.5 | 4401 10.0 | 64009.4 | -2435.6 | 4491 9.5 | 64505.8 | -2457.5 |
| 4222 10.0 | 63136.5 | -2431.1 | 4312 9.5 | 63521.1 | -2431.2 | 4402 9.6 | 64011.2 | -2446.1 | 4492 9.3 | 64512.8 | -2459.9 |
| 4223 10.0 | 63137.9 | -2430.1 | 4313 9.8 | 63524.9 | -2444.1 | 4403 10.0 | 64012.9 | -2421.1 | 4493 9.5 | 64515.5 | -2402.4 |
| 4224 10.0 | 63141.6 | -2432.6 | 4314 10.0 | 63527.6 | -2418.0 | 4404 9.6 | 64015.6 | -2411.9 | 4494 9.7 | 64515.9 | -2444.1 |
| 4225 10.0 | 63143.0 | -2454.8 | 4315 10.0 | 63534.3 | -2441.6 | 4405 9.8 | 64020.1 | -2408.4 | 4495 9.5 | 64518.3 | -2458.8 |
| 4226 9.8 | 63145.6 | -2413.8 | 4316 8.7 | 63540.9 | -2445.1 | 4406 9.0 | 64023.2 | -2446.1 | 4496 8.6 | 64524.9 | -2449.1 |
| 4227 10.0 | 63148.8 | -2424.0 | 4317 9.2 | 63547.1 | -2432.4 | 4407 10.0 | 64025.0 | -2421.4 | 4497 10.0 | 64531.7 | -2458.2 |
| 4228 9.8 | 63151.1 | -2422.5 | 4318 9.0 | 63548.2 | -2458.8 | 4408 10.0 | 64025.6 | -2417.6 | 4498 10.0 | 64531.8 | -2403.4 |
| 4229 9.9 | 63152.9 | -2424.9 | 4319 9.8 | 63554.5 | -2420.1 | 4409 8.5 | 64026.6 | -2403.4 | 4499 9.8 | 64533.0 | -2414.4 |
| 4230 9.4 | 63154.4 | -2437.6 | 4320 9.1 | 63557.2 | -2425.4 | 4410 9.7 | 64031.8 | -2422.7 | 4500 10.0 | 64534.2 | -2454.6 |
| 4231 10.0 | 63157.9 | -2433.1 | 4321 8.9 | 63557.4 | -2442.1 | 4411 9.7 | 64037.6 | -2438.6 | 4501 10.0 | 64534.6 | -2404.4 |
| 4232 10.0 | 63200.8 | -2448.4 | 4322 10.0 | 63559.7 | -2414.0 | 4412 10.0 | 64042.8 | -2451.8 | 4502 10.0 | 64536.9 | -2448.1 |
| 4233 10.0 | 63203.7 | -2412.3 | 4323 10.0 | 63600.0 | -2458.9 | 4413 9.7 | 64047.9 | -2439.6 | 4503 10.0 | 64539.1 | -2434.2 |
| 4234 9.9 | 63209.3 | -2455.8 | 4324 9.5 | 63601.1 | -2430.6 | 4414 9.7 | 64052.2 | -2415.1 | 4504 10.0 | 64543.7 | -2452.8 |
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| 4251 10.0 | 63249.0 | -2411.3 | 4341 9.7 | 63657.4 | -2418.0 | 4431 10.0 | 64207.8 | -2412.9 | 4521 10.0 | | |

-24 4530 6h46m

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-24 8489 9h43m

-24 8848 10h05m

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|------|------|---------|---------|------|------|---------|---------|------|------|---------|---------|------|------|----------|---------|
| 8489 | 9.5 | 94347.0 | -2431.9 | 8579 | 8.8 | 94950.3 | -2456.3 | 8669 | 9.9 | 95538.8 | -2431.6 | 8759 | 8.7 | 100036.3 | -2408.4 |
| 8490 | 10.0 | 94349.6 | -2446.4 | 8580 | 9.2 | 94951.6 | -2407.4 | 8670 | 10.0 | 95540.8 | -2442.3 | 8760 | 10.0 | 100039.3 | -2457.1 |
| 8491 | 9.8 | 94353.5 | -2415.8 | 8581 | 10.0 | 94953.8 | -2403.3 | 8671 | 9.5 | 95543.3 | -2416.3 | 8761 | 10.0 | 100043.0 | -2444.5 |
| 8492 | 9.7 | 94356.7 | -2445.4 | 8582 | 9.8 | 94957.6 | -2429.8 | 8672 | 9.5 | 95543.9 | -2437.3 | 8762 | 8.5 | 100046.6 | -2442.8 |
| 8493 | 9.2 | 94356.7 | -2424.9 | 8583 | 9.8 | 95003.0 | -2451.2 | 8673 | 9.4 | 95545.7 | -2439.3 | 8763 | 10.0 | 100051.1 | -2412.2 |
| 8494 | 9.3 | 94358.4 | -2400.9 | 8584 | 10.0 | 95006.4 | -2415.0 | 8674 | 8.9 | 95547.1 | -2448.7 | 8764 | 9.4 | 100100.9 | -2426.8 |
| 8495 | 8.8 | 94402.8 | -2401.2 | 8585 | 10.0 | 95006.9 | -2448.2 | 8675 | 10.0 | 95549.2 | -2401.9 | 8765 | 7.3 | 100103.9 | -2406.4 |
| 8496 | 10.0 | 94411.3 | -2429.9 | 8586 | 10.0 | 95018.7 | -2406.4 | 8676 | 10.0 | 95552.3 | -2436.3 | 8766 | 10.0 | 100114.1 | -2438.1 |
| 8497 | 9.3 | 94412.1 | -2400.4 | 8587 | 9.8 | 95020.8 | -2427.2 | 8677 | 10.0 | 95552.7 | -2434.0 | 8767 | 9.6 | 100119.1 | -2410.4 |
| 8498 | 10.0 | 94415.5 | -2415.3 | 8588 | 9.7 | 95022.2 | -2437.2 | 8678 | 9.4 | 95605.2 | -2412.0 | 8768 | 10.0 | 100119.1 | -2452.8 |
| 8499 | 9.7 | 94415.5 | -2420.4 | 8589 | 9.9 | 95024.3 | -2422.0 | 8679 | 10.0 | 95605.6 | -2440.7 | 8769 | 10.0 | 100122.3 | -2436.7 |
| 8500 | 9.8 | 94418.7 | -2437.4 | 8590 | 9.1 | 95026.5 | -2400.7 | 8680 | 10.0 | 95607.4 | -2408.6 | 8770 | 9.7 | 100124.5 | -2430.5 |
| 8501 | 9.7 | 94419.4 | -2442.4 | 8591 | 9.5 | 95028.3 | -2420.6 | 8681 | 9.8 | 95608.0 | -2455.0 | 8771 | 10.0 | 100127.3 | -2423.2 |
| 8502 | 9.6 | 94422.9 | -2438.4 | 8592 | 10.0 | 95030.7 | -2454.3 | 8682 | 9.7 | 95619.5 | -2410.8 | 8772 | 10.0 | 100127.6 | -2411.4 |
| 8503 | 9.8 | 94422.9 | -2413.8 | 8593 | 7.9 | 95032.0 | -2428.8 | 8683 | 9.6 | 95625.2 | -2412.6 | 8773 | 9.6 | 100130.0 | -2412.4 |
| 8504 | 8.8 | 94436.5 | -2410.3 | 8594 | 10.0 | 95033.5 | -2408.4 | 8684 | 10.0 | 95626.6 | -2425.5 | 8774 | 10.0 | 100134.5 | -2457.5 |
| 8505 | 9.4 | 94436.9 | -2413.9 | 8595 | 9.4 | 95036.6 | -2458.7 | 8685 | 9.5 | 95630.4 | -2400.2 | 8775 | 8.3 | 100137.3 | -2419.4 |
| 8506 | 8.9 | 94441.6 | -2402.3 | 8596 | 9.0 | 95037.3 | -2442.8 | 8686 | 9.4 | 95633.4 | -2416.6 | 8776 | 9.6 | 100140.0 | -2440.5 |
| 8507 | 9.8 | 94446.8 | -2410.0 | 8597 | 9.5 | 95041.1 | -2454.4 | 8687 | 10.0 | 95636.7 | -2432.6 | 8777 | 10.0 | 100145.2 | -2401.3 |
| 8508 | 9.4 | 94451.0 | -2447.9 | 8598 | 9.8 | 95043.4 | -2432.7 | 8688 | 9.8 | 95637.7 | -2437.6 | 8778 | 10.0 | 100149.2 | -2438.1 |
| 8509 | 9.3 | 94453.1 | -2437.9 | 8599 | 10.0 | 95045.5 | -2400.4 | 8689 | 10.0 | 95641.9 | -2411.9 | 8779 | 10.0 | 100149.9 | -2454.2 |
| 8510 | 9.3 | 94455.5 | -2445.9 | 8600 | 10.0 | 95048.2 | -2448.2 | 8690 | 9.7 | 95645.3 | -2422.3 | 8780 | 9.7 | 100150.8 | -2411.2 |
| 8511 | 9.4 | 94457.1 | -2440.4 | 8601 | 10.0 | 95049.4 | -2459.8 | 8691 | 9.9 | 95647.1 | -2447.6 | 8781 | 9.7 | 100151.6 | -2404.7 |
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| 8513 | 10.0 | 94505.9 | -2401.9 | 8603 | 8.4 | 95058.0 | -2444.3 | 8693 | 10.0 | 95650.0 | -2456.2 | 8783 | 10.0 | 100159.5 | -2427.7 |
| 8514 | 10.0 | 94506.3 | -2426.4 | 8604 | 9.5 | 95101.4 | -2407.7 | 8694 | 10.0 | 95650.4 | -2458.0 | 8784 | 8.5 | 100202.3 | -2431.5 |
| 8515 | 10.0 | 94530.2 | -2414.9 | 8605 | 9.7 | 95135.1 | -2450.4 | 8695 | 10.0 | 95651.9 | -2436.7 | 8785 | 10.0 | 100202.4 | -2422.8 |
| 8516 | 9.8 | 94530.7 | -2451.4 | 8606 | 9.4 | 95135.2 | -2415.5 | 8696 | 9.6 | 95700.9 | -2426.2 | 8786 | 10.0 | 100206.3 | -2438.7 |
| 8517 | 9.4 | 94533.2 | -2435.9 | 8607 | 10.0 | 95136.5 | -2422.5 | 8697 | 10.0 | 95701.0 | -2442.7 | 8787 | 8.4 | 100215.0 | -2420.8 |
| 8518 | 10.0 | 94534.1 | -2405.5 | 8608 | 9.6 | 95138.1 | -2409.4 | 8698 | 10.0 | 95703.6 | -2410.0 | 8788 | 9.9 | 100216.4 | -2450.1 |
| 8519 | 9.6 | 94540.2 | -2451.9 | 8609 | 9.5 | 95138.6 | -2403.7 | 8699 | 9.9 | 95706.8 | -2408.7 | 8789 | 10.0 | 100220.4 | -2416.6 |
| 8520 | 9.8 | 94541.2 | -2418.3 | 8610 | 9.3 | 95140.4 | -2455.0 | 8700 | 9.9 | 95710.3 | -2439.2 | 8790 | 9.8 | 100223.3 | -2428.5 |
| 8521 | 10.0 | 94543.9 | -2429.2 | 8611 | 10.0 | 95140.6 | -2443.3 | 8701 | 9.2 | 95718.0 | -2435.2 | 8791 | 9.8 | 100223.7 | -2415.2 |
| 8522 | 10.0 | 94557.5 | -2459.8 | 8612 | 9.9 | 95142.7 | -2436.0 | 8702 | 9.9 | 95722.1 | -2404.4 | 8792 | 9.6 | 100225.1 | -2454.1 |
| 8523 | 9.8 | 94601.3 | -2448.9 | 8613 | 9.2 | 95146.0 | -2420.0 | 8703 | 10.0 | 95726.9 | -2423.2 | 8793 | 10.0 | 100225.7 | -2437.7 |
| 8524 | 9.8 | 94613.0 | -2443.3 | 8614 | 10.0 | 95202.6 | -2442.5 | 8704 | 9.0 | 95729.7 | -2431.7 | 8794 | 10.0 | 100226.2 | -2424.8 |
| 8525 | 9.3 | 94616.7 | -2402.3 | 8615 | 10.0 | 95205.1 | -2428.3 | 8705 | 10.0 | 95733.1 | -2413.4 | 8795 | 9.9 | 100230.7 | -2417.4 |
| 8526 | 10.0 | 94625.9 | -2410.6 | 8616 | 9.7 | 95212.1 | -2424.0 | 8706 | 9.9 | 95734.6 | -2409.4 | 8796 | 10.0 | 100238.1 | -2456.2 |
| 8527 | 10.0 | 94627.9 | -2406.4 | 8617 | 9.4 | 95214.0 | -2458.3 | 8707 | 8.6 | 95736.5 | -2405.4 | 8797 | 10.0 | 100238.4 | -2424.8 |
| 8528 | 10.0 | 94628.4 | -2411.5 | 8618 | 9.9 | 95215.1 | -2413.2 | 8708 | 9.4 | 95739.4 | -2411.7 | 8798 | 9.4 | 100240.8 | -2418.4 |
| 8529 | 9.7 | 94639.0 | -2412.3 | 8619 | 9.3 | 95219.7 | -2402.7 | 8709 | 10.0 | 95741.1 | -2428.2 | 8799 | 9.7 | 100241.8 | -2419.0 |
| 8530 | 9.7 | 94640.0 | -2443.4 | 8620 | 9.6 | 95223.0 | -2434.3 | 8710 | 9.4 | 95752.6 | -2428.7 | 8800 | 9.4 | 100251.4 | -2412.0 |
| 8531 | 9.4 | 94644.7 | -2455.3 | 8621 | 9.4 | 95225.3 | -2407.7 | 8711 | 6.8 | 95756.4 | -2442.5 | 8801 | 7.9 | 100254.9 | -2422.1 |
| 8532 | 10.0 | 94702.0 | -2438.4 | 8622 | 7.0 | 95230.3 | -2431.7 | 8712 | 9.5 | 95758.0 | -2456.8 | 8802 | 8.6 | 100257.3 | -2431.5 |
| 8533 | 10.0 | 94703.6 | -2439.9 | 8623 | 9.9 | 95230.4 | -2424.0 | 8713 | 9.8 | 95806.0 | -2448.5 | 8803 | 9.4 | 100259.5 | -2438.1 |
| 8534 | 9.8 | 94705.2 | -2419.9 | 8624 | 10.0 | 95237.6 | -2450.4 | 8714 | 8.9 | 95808.1 | -2402.4 | 8804 | 10.0 | 100307.4 | -2451.1 |
| 8535 | 10.0 | 94708.0 | -2455.1 | 8625 | 10.0 | 95238.9 | -2448.4 | 8715 | 10.0 | 95808.3 | -2416.2 | 8805 | 8.9 | 100308.5 | -2416.0 |
| 8536 | 10.0 | 94716.0 | -2420.6 | 8626 | 9.9 | 95240.0 | -2452.7 | 8716 | 8.5 | 95809.3 | -2452.1 | 8806 | 10.0 | 100309.3 | -2436.1 |
| 8537 | 9.7 | 94718.2 | -2429.9 | 8627 | 10.0 | 95250.1 | -2451.4 | 8717 | 9.9 | 95810.2 | -2450.5 | 8807 | 8.2 | 100311.1 | -2426.8 |
| 8538 | 9.7 | 94723.5 | -2454.6 | 8628 | 10.0 | 95253.3 | -2452.9 | 8718 | 9.4 | 95819.7 | -2414.7 | 8808 | 10.0 | 100314.0 | -2403.2 |
| 8539 | 10.0 | 94733.3 | -2426.4 | 8629 | 10.0 | 95302.3 | -2430.7 | 8719 | 9.8 | 95820.1 | -2422.1 | 8809 | 9.5 | 100325.9 | -2434.5 |
| 8540 | 9.8 | 94734.6 | -2431.9 | 8630 | 10.0 | 95305.6 | -2417.5 | 8720 | 10.0 | 95823.1 | -2431.2 | 8810 | 10.0 | 100328.1 | -2444.1 |
| 8541 | 9.6 | 94736.4 | -2443.4 | 8631 | 10.0 | 95306.3 | -2401.4 | 8721 | 10.0 | 95823.6 | -2430.2 | 8811 | 9.5 | 100329.1 | -2405.9 |
| 8542 | 9.7 | 94737.5 | -2454.5 | 8632 | 9.4 | 95307.4 | -2411.7 | 8722 | 9.3 | 95828.5 | -2433.5 | 8812 | 9.7 | 100330.4 | -2450.1 |
| 8543 | 9.7 | 94739.9 | -2423.5 | 8633 | 9.0 | 95314.0 | -2431.3 | 8723 | 9.7 | 95838.1 | -2446.8 | 8813 | 9.2 | 100343.3 | -2415.4 |
| 8544 | 9.7 | 94759.6 | -2420.3 | 8634 | 10.0 | 95315.7 | -2407.9 | 8724 | 10.0 | 95841.7 | -2459.7 | 8814 | 9.6 | 100346.3 | -2412.0 |
| 8545 | 9.8 | 94800.4 | -2422.9 | 8635 | 9.1 | 95319.0 | -2401.2 | 8725 | 10.0 | 95842.4 | -2436.0 | 8815 | 10.0 | 100355.2 | -2403.9 |
| 8546 | 10.0 | 94807.4 | -2436.9 | 8636 | 10.0 | 95319.3 | -2444.7 | 8726 | 9.4 | 95843.1 | -2426.1 | 8816 | 10.0 | 100355.8 | -2408.1 |
| 8547 | 9.8 | 94811.8 | -2404.3 | 8637 | 9.3 | 95324.6 | -2417.0 | 8727 | 10.0 | 95843.3 | -2415.2 | 8817 | 10.0 | 100358.6 | -2417.6 |
| 8548 | 9.5 | 94821.1 | -2419.2 | 8638 | 9.7 | 95328.9 | -2451.3 | 8728 | 9.8 | 95845.6 | -2422.1 | 8818 | 9.8 | 100400.9 | -2416.0 |
| 8549 | 10.0 | 94822.3 | -2436.3 | 8639 | 9.4 | 95335.9 | -2435.0 | 8729 | 10.0 | 95846.2 | -2400.2 | 8819 | 9.5 | 100406.4 | -2446.5 |
| 8550 | 10.0 | 94823.3 | -2403.0 | 8640 | 10.0 | 95338.6 | -2408.1 | 8730 | 10.0 | 95847.2 | -2443.5 | 8820 | 10.0 | 100410.0 | -2431.5 |
| 8551 | 7.3 | 94825.0 | -2452.9 | 8641 | 9.4 | 95346.6 | -2452.2 | 8731 | 10.0 | 95851.7 | -2459.2 | 8821 | 9.9 | 100426.6 | -2431.1 |
| 8552 | 9.2 | 94825.6 | -2459.1 | 8642 | 8.9 | 95349.3 | -2415.3 | 8732 | 10.0 | 95857.4 | -2442.5 | 8822 | 10.0 | 100430.1 | -2437.1 |
| 8553 | 9.9 | 94830.7 | -2405.2 | 8643 | 9.9 | 95351.3 | -2428.7 | 8733 | 9.9 | 95900.7 | -2428.5 | 8823 | 10.0 | 100430.9 | -2413.1 |
| 8554 | 9.0 | 94838.5 | -2408.5 | 8644 | 9.7 | 95355.0 | -2400.5 | 8734 | 10.0 | 95902.6 | -2457.5 | 8824 | 10.0 | 100433.4 | -2458.6 |
| 8555 | 10.0 | 94839.7 | -2404.5 | 8645 | 10.0 | 95359.5 | -2416.7 | 8735 | 10.0 | 95903.4 | -2406.3 | 8825 | 10.0 | 100435.5 | -2418.8 |
| 8556 | 9.5 | 94840.7 | -2432.9 | 8646 | 9.8 | 95406.5 | -2453.3 | 8736 | 10.0 | 95907.1 | -2428.6 | 8826 | 10.0 | 100439.3 | -2400.8 |
| 8557 | 10.0 | 94841.0 | -2410.8 | 8647 | 9.1 | 95409.4 | -2431.3 | 8737 | 9.8 | 95909.0 | -2400.4 | 8827 | 10.0 | 100445.4 | -2448.2 |
| 8558 | 9.6 | 94843.5 | -2441.6 | 8648 | 10.0 | 95410.2 | -2404.1 | 8738 | 10.0 | 95911.3 | -2405.9 | 8828 | 9.6 | 100451.8 | -2454.1 |
| 8559 | 9.6 | 94853.6 | -2426.8 | 8649 | 9.4 | 95414.3 | -2443.0 | 8739 | 10.0 | 95914.5 | -2440.5 | 8829 | 10.0 | 100452.2 | -2414.1 |
| 8560 | 9.8 | 94855.6 | -2419.6 | 8650 | 9.6 | 95415.8 | -2444.0 | 8740 | 8.9 | 95936.8 | -2443.1 | 8830 | 9.8 | 100453.1 | -2428.8 |
| 8561 | 9.1 | 94858.5 | -2404.8 | 8651 | 9.7 | 95419.5 | -2458.8 | 8741 | 9.5 | 95942.9 | -2427.8 | 8831 | 9.8 | 100456.1 | -2447.5 |
| 8562 | 10.0 | 94903.7 | -2416.2 | 8652 | 9.6 | 95423.1 | -2454.7 | 8742 | 10.0 | | | | | | |

-24 8849 10h05m

8849 9.6 100548.1 -2406.7
8850 10.0 100550.0 -2410.2
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-2417128 22h14m

-2417487 22h59m

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-2417488 22h59m

-2417847 23h40m

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| 17541 9.7 230612.8 -2453.1 | 17631 9.5 231704.9 -2419.0 | 17721 10.0 232555.9 -2401.8 | 17811 10.0 233556.0 -2416.7 |
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-2417848 23h40m

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| 17848 | 9.8 | 234058.0 | -2452.8 | 17938 | 9.7 | 235326.6 | -2454.8 | 48 | 9.5 | 00624.0 | -2501.1 | 138 | 9.6 | 01945.6 | -2555.2 |
| 17849 | 10.0 | 234059.1 | -2417.8 | 17939 | 9.9 | 235335.3 | -2444.0 | 49 | 10.0 | 00624.6 | -2533.9 | 139 | 10.0 | 01951.6 | -2518.0 |
| 17850 | 10.0 | 234102.5 | -2431.7 | 17940 | 10.0 | 235335.8 | -2434.9 | 50 | 10.0 | 00629.6 | -2543.9 | 140 | 9.2 | 01951.6 | -2525.7 |
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| 17852 | 9.8 | 234125.0 | -2432.2 | 17942 | 9.6 | 235401.1 | -2451.7 | 52 | 8.8 | 00642.2 | -2538.9 | 142 | 10.0 | 02003.5 | -2557.4 |
| 17853 | 10.0 | 234130.7 | -2437.2 | 17943 | 10.0 | 235424.1 | -2404.6 | 53 | 10.0 | 00652.7 | -2539.9 | 143 | 9.6 | 02003.9 | -2546.1 |
| 17854 | 10.0 | 234134.6 | -2412.8 | 17944 | 9.1 | 235433.5 | -2408.1 | 54 | 9.0 | 00656.3 | -2521.6 | 144 | 9.8 | 02008.6 | -2518.0 |
| 17855 | 9.2 | 234136.8 | -2429.1 | 17945 | 9.9 | 235435.8 | -2424.4 | 55 | 10.0 | 00656.4 | -2549.9 | 145 | 10.0 | 02024.6 | -2542.1 |
| 17856 | 9.3 | 234138.6 | -2423.0 | 17946 | 9.0 | 235438.3 | -2407.6 | 56 | 9.5 | 00658.0 | -2520.0 | 146 | 10.0 | 02024.7 | -2507.0 |
| 17857 | 10.0 | 234138.9 | -2420.3 | 17947 | 9.5 | 235449.1 | -2436.6 | 57 | 10.0 | 00722.2 | -2511.1 | 147 | 10.0 | 02056.2 | -2526.0 |
| 17858 | 9.9 | 234146.3 | -2442.2 | 17948 | 10.0 | 235502.1 | -2405.1 | 58 | 9.6 | 00723.1 | -2522.4 | 148 | 9.6 | 02115.8 | -2502.0 |
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| 17860 | 9.7 | 234157.5 | -2436.2 | 17950 | 10.0 | 235524.1 | -2413.6 | 60 | 10.0 | 00746.0 | -2547.9 | 150 | 8.2 | 02134.8 | -2558.7 |
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-25 2748 5h48m

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|-----|------|---------|---------|-----|------|---------|---------|-----|------|---------|---------|------|------|---------|---------|
| 713 | 9.7 | 15350.6 | -2620.2 | 803 | 10.0 | 20826.0 | -2600.4 | 893 | 9.2 | 22342.6 | -2645.8 | 983 | 9.2 | 23653.7 | -2615.7 |
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| 778 | 10.0 | 20429.4 | -2614.7 | 868 | 10.0 | 22042.6 | -2634.9 | 958 | 7.6 | 23352.9 | -2606.3 | 1048 | 10.0 | 24627.3 | -2637.0 |
| 779 | 9.6 | 20431.2 | -2623.8 | 869 | 10.0 | 22045.0 | -2601.4 | 959 | 10.0 | 23358.1 | -2631.4 | 1049 | 10.0 | 24629.5 | -2602.8 |
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| 782 | 8.3 | 20517.4 | -2602.9 | 872 | 9.5 | 22107.5 | -2609.5 | 962 | 10.0 | 23417.8 | -2638.4 | 1052 | 10.0 | 24733.2 | -2621.4 |
| 783 | 10.0 | 20530.6 | -2620.5 | 873 | 9.4 | 22112.5 | -2628.2 | 963 | 10.0 | 23421.7 | -2612.4 | 1053 | 10.0 | 24735.6 | -2604.3 |
| 784 | 10.0 | 20533.3 | -2640.8 | 874 | 10.0 | 22128.7 | -2638.2 | 964 | 9.0 | 23422.3 | -2650.7 | 1054 | 10.0 | 24736.6 | -2605.8 |
| 785 | 10.0 | 20535.8 | -2635.5 | 875 | 10.0 | 22131.5 | -2620.5 | 965 | 9.4 | 23428.6 | -2603.3 | 1055 | 10.0 | 24737.8 | -2647.0 |
| 786 | 9.9 | 20537.2 | -2614.1 | 876 | 10.0 | 22136.3 | -2617.6 | 966 | 10.0 | 23447.8 | -2645.0 | 1056 | 10.0 | 24745.8 | -2633.0 |
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| | | | | | | | | | | | | | | | |
|------|------|---------|---------|------|------|---------|---------|------|------|---------|---------|------|------|---------|---------|
| 1073 | 9.0 | 25017.0 | -2613.0 | 1163 | 10.0 | 30350.5 | -2626.7 | 1253 | 10.0 | 31636.8 | -2600.7 | 1343 | 9.8 | 32821.8 | -2648.1 |
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3195 10.0 63225.2 -2620.9
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3221 10.0 63343.2 -2632.1
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3229 9.8 63408.6 -2659.9
3230 9.3 63409.9 -2615.6
3231 8.6 63410.0 -2627.2
3232 10.0 63411.9 -2639.6

-26 3232 6h34m

-26 3233 6h34m

| | | | | | | | | | | | |
|-----------|---------|---------|-----------|---------|---------|-----------|---------|---------|-----------|---------|---------|
| 3233 9.9 | 63413.8 | -2635.8 | 3233 9.6 | 63815.8 | -2617.6 | 3413 9.6 | 64303.3 | -2616.1 | 3503 10.0 | 64708.4 | -2647.7 |
| 3234 10.0 | 63415.3 | -2607.6 | 3234 9.4 | 63817.0 | -2652.0 | 3414 10.0 | 64303.3 | -2642.0 | 3504 9.7 | 64711.0 | -2630.1 |
| 3235 9.6 | 63415.8 | -2652.1 | 3235 8.1 | 63817.2 | -2620.6 | 3415 9.5 | 64305.8 | -2612.2 | 3505 9.2 | 64712.3 | -2646.8 |
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| 3244 10.0 | 63444.7 | -2651.6 | 3244 10.0 | 63849.4 | -2616.6 | 3424 9.9 | 64339.3 | -2621.1 | 3514 9.9 | 64725.3 | -2655.7 |
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| 3246 9.9 | 63450.0 | -2623.5 | 3246 9.6 | 63855.0 | -2626.2 | 3426 9.7 | 64356.1 | -2619.6 | 3516 9.0 | 64733.3 | -2614.1 |
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| 3256 9.7 | 63516.8 | -2649.1 | 3256 10.0 | 63923.3 | -2654.0 | 3436 9.8 | 64423.6 | -2634.3 | 3526 10.0 | 64750.7 | -2608.8 |
| 3257 10.0 | 63521.6 | -2655.6 | 3257 9.6 | 63926.3 | -2651.0 | 3437 10.0 | 64425.1 | -2645.9 | 3527 9.6 | 64755.3 | -2608.0 |
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| 3259 10.0 | 63525.0 | -2619.3 | 3259 9.2 | 63930.0 | -2643.4 | 3439 10.0 | 64430.5 | -2623.1 | 3529 7.0 | 64759.2 | -2648.1 |
| 3260 8.2 | 63525.7 | -2611.3 | 3260 9.9 | 63933.1 | -2636.7 | 3440 8.8 | 64432.4 | -2624.8 | 3530 9.7 | 64801.7 | -2628.0 |
| 3261 10.0 | 63528.2 | -2632.1 | 3261 9.1 | 63933.5 | -2617.6 | 3441 9.8 | 64433.9 | -2618.6 | 3531 10.0 | 64803.4 | -2659.1 |
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| 3265 10.0 | 63535.5 | -2637.1 | 3265 9.7 | 63942.9 | -2600.5 | 3445 9.8 | 64443.7 | -2605.8 | 3535 9.2 | 64813.5 | -2632.1 |
| 3266 9.3 | 63540.7 | -2602.4 | 3266 10.0 | 63946.7 | -2650.5 | 3446 10.0 | 64445.1 | -2617.6 | 3536 9.7 | 64825.5 | -2643.8 |
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| 3269 9.9 | 63549.3 | -2653.1 | 3269 10.0 | 63953.8 | -2607.9 | 3449 9.8 | 64455.4 | -2602.6 | 3539 10.0 | 64839.5 | -2648.6 |
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| 3271 9.6 | 63555.5 | -2630.5 | 3271 10.0 | 64009.0 | -2652.5 | 3451 9.7 | 64500.0 | -2656.0 | 3541 9.8 | 64840.7 | -2603.7 |
| 3272 10.0 | 63556.7 | -2641.5 | 3272 9.9 | 64009.1 | -2636.6 | 3452 9.7 | 64505.1 | -2654.8 | 3542 9.7 | 64842.1 | -2647.6 |
| 3273 9.4 | 63558.7 | -2627.6 | 3273 9.8 | 64009.2 | -2634.3 | 3453 10.0 | 64505.4 | -2650.0 | 3543 9.6 | 64848.2 | -2628.6 |
| 3274 9.7 | 63559.4 | -2656.6 | 3274 10.0 | 64014.0 | -2602.3 | 3454 9.9 | 64508.3 | -2609.2 | 3544 8.8 | 64855.2 | -2642.8 |
| 3275 9.5 | 63601.1 | -2657.6 | 3275 10.0 | 64015.0 | -2619.5 | 3455 8.5 | 64514.2 | -2637.5 | 3545 10.0 | 64857.5 | -2626.1 |
| 3276 8.9 | 63604.6 | -2602.1 | 3276 9.9 | 64015.9 | -2619.5 | 3456 9.9 | 64514.7 | -2634.6 | 3546 10.0 | 64901.3 | -2633.1 |
| 3277 10.0 | 63606.5 | -2634.1 | 3277 9.9 | 64017.1 | -2657.4 | 3457 9.3 | 64516.7 | -2603.8 | 3547 10.0 | 64902.6 | -2652.6 |
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| 3279 9.9 | 63612.6 | -2626.2 | 3279 8.8 | 64020.5 | -2601.6 | 3459 9.7 | 64523.5 | -2644.4 | 3549 9.6 | 64906.9 | -2628.1 |
| 3280 10.0 | 63616.6 | -2636.4 | 3280 9.1 | 64033.1 | -2603.4 | 3460 9.4 | 64524.1 | -2624.1 | 3550 9.6 | 64908.6 | -2628.1 |
| 3281 10.0 | 63619.1 | -2645.8 | 3281 9.2 | 64035.0 | -2611.9 | 3461 9.6 | 64525.5 | -2626.1 | 3551 9.4 | 64910.4 | -2639.8 |
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| 3283 10.0 | 63626.7 | -2610.6 | 3283 9.7 | 64046.9 | -2602.3 | 3463 10.0 | 64529.1 | -2627.6 | 3553 10.0 | 64915.8 | -2621.1 |
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| 3286 9.7 | 63633.4 | -2640.4 | 3286 10.0 | 64055.3 | -2630.5 | 3466 9.2 | 64533.0 | -2633.9 | 3556 10.0 | 64919.3 | -2658.6 |
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| 3288 10.0 | 63641.3 | -2635.9 | 3288 10.0 | 64057.1 | -2610.4 | 3468 10.0 | 64537.8 | -2608.9 | 3558 9.7 | 64925.5 | -2622.6 |
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| 3290 10.0 | 63646.4 | -2631.2 | 3290 9.9 | 64100.8 | -2655.0 | 3470 9.7 | 64542.2 | -2624.1 | 3560 10.0 | 64936.0 | -2608.5 |
| 3291 10.0 | 63648.6 | -2626.1 | 3291 9.7 | 64102.4 | -2611.9 | 3471 9.6 | 64542.2 | -2648.6 | 3561 9.8 | 64937.2 | -2637.2 |
| 3292 9.8 | 63651.3 | -2624.9 | 3292 10.0 | 64107.5 | -2609.6 | 3472 10.0 | 64542.3 | -2600.4 | 3562 9.6 | 64940.6 | -2622.6 |
| 3293 9.4 | 63655.4 | -2644.4 | 3293 9.2 | 64110.2 | -2642.4 | 3473 10.0 | 64544.6 | -2607.5 | 3563 9.4 | 64945.8 | -2654.6 |
| 3294 9.5 | 63656.3 | -2639.4 | 3294 10.0 | 64115.5 | -2639.0 | 3474 9.1 | 64544.7 | -2624.6 | 3564 10.0 | 64946.3 | -2652.6 |
| 3295 10.0 | 63659.5 | -2616.1 | 3295 9.6 | 64119.1 | -2627.5 | 3475 9.5 | 64546.3 | -2642.4 | 3565 10.0 | 64951.1 | -2623.5 |
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| 3298 9.9 | 63700.9 | -2647.1 | 3298 10.0 | 64133.9 | -2636.0 | 3478 10.0 | 64612.7 | -2608.3 | 3568 10.0 | 64957.4 | -2639.2 |
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-26 3593 6h50m

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| | | | | | | | | | | | | | | | |
|------|------|---------|---------|------|------|---------|---------|------|------|---------|---------|------|------|---------|---------|
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| 4683 | 8.9 | 73254.0 | -2619.9 | 4773 | 9.8 | 73617.4 | -2645.6 | 4863 | 8.9 | 73855.9 | -2658.4 | 4953 | 9.5 | 74124.1 | -2601.2 |
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| 4714 | 9.9 | 73407.4 | -2638.8 | 4804 | 9.8 | 73709.3 | -2632.1 | 4894 | 10.0 | 73944.3 | -2637.9 | 4984 | 9.9 | 74225.8 | -2641.4 |
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| 4722 | 6.9 | 73420.1 | -2634.4 | 4812 | 9.8 | 73724.0 | -2635.9 | 4902 | 10.0 | 73958.8 | -2615.0 | 4992 | 9.7 | 74239.4 | -2657.7 |
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| 4726 | 10.0 | 73430.5 | -2659.9 | 4816 | 10.0 | 73729.1 | -2615.7 | 4906 | 10.0 | 74003.4 | -2626.2 | 4996 | 10.0 | 74246.3 | -2622.2 |
| 4727 | 9.7 | 73434.8 | -2610.3 | 4817 | 9.9 | 73729.4 | -2638.3 | 4907 | 10.0 | 74004.0 | -2620.7 | 4997 | 9.7 | 74247.5 | -2603.2 |
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-26 5392 7h56m

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-26 5753 8h09m

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-26 6112 8h24m

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| | | | | | | | | | | | | | | | |
|------|------|----------|---------|------|------|----------|---------|------|------|----------|---------|------|------|----------|---------|
| 8633 | 8.3 | 112737.1 | -2608.4 | 8723 | 10.0 | 113621.6 | -2607.3 | 8813 | 10.0 | 114436.7 | -2616.6 | 8903 | 9.5 | 115346.3 | -2624.4 |
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| 8635 | 9.5 | 112743.1 | -2634.5 | 8725 | 9.7 | 113632.1 | -2630.8 | 8815 | 9.4 | 114451.9 | -2655.8 | 8905 | 10.0 | 115405.1 | -2613.9 |
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| 8642 | 10.0 | 112904.5 | -2631.0 | 8732 | 9.8 | 113658.8 | -2602.7 | 8822 | 9.4 | 114538.2 | -2658.9 | 8912 | 10.0 | 115428.1 | -2611.0 |
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| 8646 | 10.0 | 112918.8 | -2613.4 | 8736 | 10.0 | 113721.2 | -2600.9 | 8826 | 10.0 | 114601.6 | -2618.4 | 8916 | 10.0 | 115437.3 | -2612.2 |
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| 8660 | 9.4 | 113015.6 | -2623.1 | 8750 | 10.0 | 113809.3 | -2625.1 | 8840 | 9.6 | 114653.7 | -2611.8 | 8930 | 10.0 | 115557.9 | -2649.9 |
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| 8667 | 9.5 | 113104.5 | -2631.0 | 8757 | 9.3 | 113900.9 | -2630.7 | 8847 | 10.0 | 114741.1 | -2639.0 | 8937 | 10.0 | 115648.2 | -2645.0 |
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| 8675 | 8.6 | 113149.4 | -2639.0 | 8765 | 8.8 | 114002.1 | -2622.4 | 8855 | 10.0 | 114839.4 | -2644.1 | 8945 | 10.0 | 115727.9 | -2603.3 |
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| 8683 | 9.4 | 113249.7 | -2659.6 | 8773 | 10.0 | 114058.3 | -2604.0 | 8863 | 8.7 | 114931.1 | -2646.1 | 8953 | 10.0 | 115827.0 | -2621.9 |
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| 8685 | 8.0 | 113303.4 | -2609.4 | 8775 | 9.6 | 114101.3 | -2636.1 | 8865 | 9.9 | 114953.1 | -2644.4 | 8955 | 10.0 | 115835.3 | -2628.0 |
| 8686 | 9.5 | 113325.4 | -2629.0 | 8776 | 10.0 | 114107.7 | -2646.5 | 8866 | 10.0 | 114959.9 | -2608.3 | 8956 | 10.0 | 115843.1 | -2601.0 |
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-26 9712 13h19m

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-2612592 17h50m

-2612593 17h50m

-2612952 18h05m

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-2615472 21h03m

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-27 1083 3h00m

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-27 2882 6h14m

-27 2883 6h14m

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4212 10.0 72756.2 -2759.1

4213 9.9 72802.0 -2722.3
4214 9.7 72805.3 -2750.1
4215 10.0 72806.6 -2709.9
4216 9.9 72812.1 -2735.3
4217 8.8 72812.9 -2748.0
4218 9.7 72815.1 -2732.8
4219 9.4 72817.5 -2736.3
4220 9.9 72818.2 -2743.7
4221 10.0 72818.8 -2756.4
4222 9.3 72822.0 -2724.3

4223 10.0 72822.1 -2734.8
4224 9.0 72824.3 -2755.1
4225 10.0 72826.0 -2715.4
4226 10.0 72828.0 -2712.9
4227 9.6 72829.2 -2709.2
4228 9.3 72831.6 -2729.8
4229 8.6 72832.3 -2742.1
4230 9.7 72835.1 -2739.8
4231 9.3 72839.5 -2702.9
4232 10.0 72840.9 -2704.4

-27 4322 7h32m

4233 9.7 72841.7 -2725.3
4234 9.6 72844.1 -2734.8
4235 9.7 72848.3 -2759.1
4236 9.6 72850.1 -2739.8
4237 10.0 72851.8 -2720.3
4238 10.0 72856.1 -2753.6
4239 10.0 72856.7 -2752.1
4240 10.0 72858.1 -2744.3
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4242 9.6 72859.6 -2729.3

4243 9.7 72900.4 -2756.1
4244 9.6 72903.9 -2732.8
4245 10.0 72908.6 -2753.6
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4253 9.5 72926.5 -2714.5
4254 8.7 72928.8 -2756.6
4255 9.5 72929.0 -2711.5
4256 9.6 72933.5 -2726.8
4257 9.6 72940.1 -2746.3
4258 9.1 72941.1 -2722.3
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4260 9.8 72943.4 -2705.4
4261 10.0 72943.5 -2745.0
4262 10.0 72953.9 -2726.3

4263 9.0 72958.8 -2743.3
4264 10.0 72958.9 -2729.8
4265 10.0 73004.2 -2743.3
4266 9.6 73004.9 -2706.9
4267 9.7 73007.4 -2700.4
4268 9.9 73010.7 -2711.8
4269 9.6 73015.7 -2717.2
4270 8.9 73017.1 -2750.1
4271 10.0 73019.1 -2757.6
4272 8.9 73019.4 -2712.5

4273 10.0 73023.1 -2744.8
4274 9.7 73024.4 -2729.8
4275 9.6 73029.9 -2716.5
4276 8.1 73030.6 -2702.4
4277 9.9 73034.9 -2745.6
4278 9.1 73036.4 -2759.1
4279 9.7 73038.8 -2708.5
4280 10.0 73042.1 -2719.8
4281 9.5 73046.6 -2737.3
4282 9.5 73046.8 -2722.3

4283 10.0 73050.1 -2707.4
4284 10.0 73051.7 -2759.1
4285 9.9 73054.8 -2753.1
4286 9.1 73055.8 -2738.8
4287 9.9 73056.8 -2746.6
4288 9.6 73100.2 -2752.6
4289 9.6 73101.5 -2727.8
4290 9.4 73102.7 -2743.6
4291 7.5 73104.3 -2714.2
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4293 10.0 73111.0 -2703.4
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4295 9.8 73113.1 -2710.9
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4297 10.0 73115.6 -2723.3
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4300 9.6 73121.7 -2750.1
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4303 9.6 73131.5 -2703.9
4304 8.5 73143.7 -2700.4
4305 10.0 73146.9 -2724.3
4306 9.1 73148.1 -2728.8
4307 9.0 73149.6 -2732.8
4308 9.0 73150.7 -2741.8
4309 9.6 73151.1 -2717.8
4310 7.5 73200.3 -2708.5
4311 9.7 73202.3 -2718.3
4312 9.7 73202.4 -2758.0

4313 10.0 73207.2 -2752.5
4314 9.8 73209.6 -2723.3
4315 10.0 73211.8 -2745.3
4316 9.4 73213.6 -2713.5
4317 10.0 73215.5 -2742.8
4318 10.0 73216.7 -2751.2
4319 9.7 73220.3 -2705.9
4320 10.0 73221.2 -2731.8
4321 9.3 73222.0 -2748.5
4322 9.5 73222.0 -2748.0

-27 4323 7h32m

-27 4682 7h48m

| | | | | | | | | | | | |
|-----------|---------|---------|-----------|---------|---------|-----------|---------|---------|-----------|---------|---------|
| 4323 10.0 | 73229.5 | -2749.5 | 4413 10.0 | 73644.2 | -2753.6 | 4503 9.4 | 74031.8 | -2708.1 | 4593 9.9 | 74431.1 | -2714.8 |
| 4324 8.2 | 73240.4 | -2700.5 | 4414 10.0 | 73650.0 | -2759.1 | 4504 9.2 | 74032.7 | -2743.3 | 4594 9.9 | 74432.3 | -2746.0 |
| 4325 10.0 | 73240.5 | -2717.3 | 4415 10.0 | 73652.6 | -2707.8 | 4505 9.9 | 74036.0 | -2711.8 | 4595 10.0 | 74441.2 | -2753.3 |
| 4326 9.9 | 73242.2 | -2730.8 | 4416 9.9 | 73656.7 | -2730.8 | 4506 9.5 | 74040.6 | -2749.0 | 4596 9.2 | 74442.3 | -2755.8 |
| 4327 9.3 | 73246.9 | -2755.5 | 4417 10.0 | 73659.2 | -2726.3 | 4507 9.6 | 74042.4 | -2725.8 | 4597 9.9 | 74443.2 | -2705.1 |
| 4328 10.0 | 73249.4 | -2736.3 | 4418 10.0 | 73700.1 | -2755.1 | 4508 9.8 | 74044.8 | -2744.7 | 4598 9.7 | 74443.4 | -2714.8 |
| 4329 9.5 | 73252.1 | -2729.8 | 4419 9.6 | 73700.7 | -2734.8 | 4509 8.6 | 74047.9 | -2738.3 | 4599 9.8 | 74443.7 | -2757.3 |
| 4330 10.0 | 73252.4 | -2707.9 | 4420 9.8 | 73701.6 | -2740.5 | 4510 8.6 | 74051.6 | -2754.1 | 4600 9.6 | 74445.1 | -2750.8 |
| 4331 9.6 | 73253.5 | -2739.8 | 4421 9.7 | 73702.3 | -2753.6 | 4511 9.4 | 74051.9 | -2704.3 | 4601 10.0 | 74446.8 | -2734.3 |
| 4332 10.0 | 73255.4 | -2750.0 | 4422 9.7 | 73704.5 | -2719.3 | 4512 9.0 | 74055.6 | -2729.3 | 4602 9.5 | 74448.7 | -2719.5 |
| 4333 9.2 | 73256.5 | -2708.9 | 4423 9.6 | 73705.0 | -2743.0 | 4513 10.0 | 74103.2 | -2722.8 | 4603 10.0 | 74452.8 | -2725.0 |
| 4334 10.0 | 73303.8 | -2700.0 | 4424 10.0 | 73707.7 | -2744.3 | 4514 9.9 | 74104.9 | -2728.3 | 4604 9.1 | 74454.4 | -2732.0 |
| 4335 9.9 | 73303.9 | -2744.3 | 4425 9.4 | 73708.4 | -2738.8 | 4515 9.7 | 74106.4 | -2726.3 | 4605 10.0 | 74458.2 | -2756.3 |
| 4336 9.9 | 73305.9 | -2746.9 | 4426 9.9 | 73712.9 | -2709.2 | 4516 9.2 | 74108.1 | -2717.3 | 4606 9.6 | 74459.0 | -2744.6 |
| 4337 9.8 | 73311.1 | -2757.5 | 4427 8.7 | 73715.4 | -2738.8 | 4517 10.0 | 74116.5 | -2751.6 | 4607 9.4 | 74500.7 | -2747.0 |
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| 4341 9.4 | 73319.0 | -2735.8 | 4431 10.0 | 73731.0 | -2717.8 | 4521 9.2 | 74130.9 | -2741.5 | 4611 9.6 | 74518.9 | -2712.1 |
| 4342 10.0 | 73322.6 | -2726.8 | 4432 9.7 | 73731.1 | -2731.3 | 4522 10.0 | 74131.3 | -2745.0 | 4612 10.0 | 74519.9 | -2706.1 |
| 4343 9.4 | 73323.9 | -2716.8 | 4433 9.0 | 73734.4 | -2743.0 | 4523 9.6 | 74132.3 | -2754.1 | 4613 10.0 | 74521.0 | -2738.8 |
| 4344 9.0 | 73335.3 | -2752.5 | 4434 10.0 | 73735.9 | -2701.4 | 4524 9.6 | 74133.5 | -2728.3 | 4614 9.9 | 74527.0 | -2706.1 |
| 4345 9.8 | 73335.3 | -2717.2 | 4435 10.0 | 73736.4 | -2713.5 | 4525 9.8 | 74141.3 | -2713.1 | 4615 9.3 | 74530.4 | -2702.1 |
| 4346 10.0 | 73336.7 | -2727.8 | 4436 9.5 | 73739.6 | -2750.6 | 4526 10.0 | 74142.8 | -2724.8 | 4616 9.1 | 74530.8 | -2758.8 |
| 4347 10.0 | 73339.2 | -2747.8 | 4437 9.7 | 73740.0 | -2728.3 | 4527 9.7 | 74142.6 | -2703.8 | 4617 9.9 | 74532.2 | -2754.3 |
| 4348 9.7 | 73343.7 | -2720.8 | 4438 9.4 | 73743.2 | -2738.8 | 4528 10.0 | 74145.7 | -2713.8 | 4618 10.0 | 74532.9 | -2746.0 |
| 4349 9.9 | 73344.4 | -2702.3 | 4439 9.1 | 73746.1 | -2741.8 | 4529 9.3 | 74149.2 | -2716.8 | 4619 9.1 | 74535.9 | -2724.3 |
| 4350 10.0 | 73345.1 | -2722.3 | 4440 10.0 | 73746.4 | -2744.3 | 4530 9.6 | 74149.2 | -2719.8 | 4620 9.4 | 74540.9 | -2714.8 |
| 4351 9.9 | 73348.4 | -2707.4 | 4441 10.0 | 73750.2 | -2747.3 | 4531 9.3 | 74152.6 | -2707.1 | 4621 10.0 | 74544.1 | -2710.6 |
| 4352 10.0 | 73348.5 | -2731.8 | 4442 9.7 | 73755.0 | -2732.3 | 4532 10.0 | 74158.2 | -2722.8 | 4622 10.0 | 74546.5 | -2718.3 |
| 4353 9.3 | 73349.3 | -2705.9 | 4443 10.0 | 73755.6 | -2755.6 | 4533 8.3 | 74200.7 | -2737.3 | 4623 9.6 | 74547.1 | -2753.8 |
| 4354 10.0 | 73350.0 | -2705.9 | 4444 10.0 | 73755.8 | -2744.4 | 4534 10.0 | 74204.0 | -2754.6 | 4624 9.6 | 74548.4 | -2714.8 |
| 4355 9.9 | 73351.2 | -2732.3 | 4445 10.0 | 73757.2 | -2743.0 | 4535 10.0 | 74204.4 | -2751.1 | 4625 9.9 | 74554.1 | -2712.0 |
| 4356 9.8 | 73351.3 | -2717.8 | 4446 7.2 | 73758.1 | -2722.3 | 4536 9.9 | 74208.3 | -2754.1 | 4626 9.7 | 74555.6 | -2725.0 |
| 4357 10.0 | 73352.8 | -2736.8 | 4447 9.4 | 73800.0 | -2709.2 | 4537 10.0 | 74208.7 | -2747.3 | 4627 9.9 | 74556.1 | -2758.8 |
| 4358 9.7 | 73355.8 | -2720.8 | 4448 9.9 | 73805.4 | -2724.3 | 4538 9.7 | 74208.9 | -2726.3 | 4628 9.9 | 74566.5 | -2746.8 |
| 4359 9.6 | 73358.0 | -2724.8 | 4449 9.8 | 73805.4 | -2706.9 | 4539 10.0 | 74214.1 | -2704.6 | 4629 9.9 | 74614.1 | -2729.5 |
| 4360 10.0 | 73359.3 | -2726.8 | 4450 9.9 | 73813.1 | -2753.1 | 4540 9.9 | 74218.6 | -2702.8 | 4630 9.3 | 74620.0 | -2754.8 |
| 4361 9.9 | 73400.9 | -2740.3 | 4451 9.6 | 73813.3 | -2707.8 | 4541 9.7 | 74218.9 | -2711.6 | 4631 9.4 | 74622.8 | -2741.1 |
| 4362 10.0 | 73403.5 | -2742.3 | 4452 10.0 | 73817.3 | -2724.8 | 4542 9.6 | 74220.3 | -2707.6 | 4632 9.4 | 74627.3 | -2700.1 |
| 4363 9.4 | 73415.1 | -2719.8 | 4453 10.0 | 73821.0 | -2751.1 | 4543 9.4 | 74222.4 | -2730.8 | 4633 10.0 | 74632.7 | -2759.0 |
| 4364 10.0 | 73422.8 | -2710.3 | 4454 10.0 | 73821.1 | -2710.8 | 4544 10.0 | 74224.1 | -2755.1 | 4634 10.0 | 74632.9 | -2744.5 |
| 4365 9.6 | 73423.8 | -2725.8 | 4455 10.0 | 73822.3 | -2717.8 | 4545 9.4 | 74228.6 | -2739.5 | 4635 10.0 | 74633.0 | -2758.3 |
| 4366 10.0 | 73429.3 | -2732.8 | 4456 9.2 | 73822.9 | -2709.2 | 4546 8.3 | 74231.4 | -1733.8 | 4636 8.5 | 74638.1 | -2702.6 |
| 4367 10.0 | 73429.3 | -2725.8 | 4457 10.0 | 73824.6 | -2740.8 | 4547 10.0 | 74238.0 | -2743.1 | 4637 10.0 | 74639.0 | -2738.5 |
| 4368 9.5 | 73429.5 | -2718.3 | 4458 9.9 | 73825.5 | -2758.1 | 4548 9.9 | 74238.3 | -2708.6 | 4638 10.0 | 74640.6 | -2757.8 |
| 4369 10.0 | 73431.9 | -2749.0 | 4459 9.5 | 73831.1 | -2704.4 | 4549 9.1 | 74241.9 | -2718.8 | 4639 9.9 | 74645.4 | -2732.0 |
| 4370 10.0 | 73436.0 | -2700.4 | 4460 9.8 | 73832.0 | -2754.1 | 4550 10.0 | 74245.8 | -2756.1 | 4640 9.8 | 74645.7 | -2751.8 |
| 4371 10.0 | 73436.9 | -2738.3 | 4461 9.7 | 73834.2 | -2714.1 | 4551 10.0 | 74247.4 | -2716.1 | 4641 10.0 | 74654.3 | -2726.0 |
| 4372 9.9 | 73442.8 | -2702.9 | 4462 9.7 | 73841.1 | -2723.3 | 4552 9.4 | 74259.8 | -2712.6 | 4642 10.0 | 74654.4 | -2755.8 |
| 4373 9.8 | 73443.5 | -2729.3 | 4463 9.6 | 73844.5 | -2739.5 | 4553 9.6 | 74304.1 | -2711.6 | 4643 9.7 | 74655.4 | -2728.5 |
| 4374 9.2 | 73444.5 | -2755.5 | 4464 9.8 | 73845.2 | -2748.7 | 4554 9.0 | 74304.1 | -2731.3 | 4644 9.9 | 74656.0 | -2745.3 |
| 4375 9.8 | 73445.2 | -2706.4 | 4465 10.0 | 73851.7 | -2717.8 | 4555 9.8 | 74306.2 | -2742.0 | 4645 10.0 | 74658.0 | -2705.1 |
| 4376 9.9 | 73446.0 | -2738.3 | 4466 10.0 | 73858.2 | -2732.3 | 4556 10.0 | 74307.7 | -2758.6 | 4646 9.1 | 74659.0 | -2758.3 |
| 4377 9.6 | 73451.1 | -2739.5 | 4467 10.0 | 73858.4 | -2734.8 | 4557 10.0 | 74309.3 | -2703.6 | 4647 10.0 | 74659.0 | -2720.5 |
| 4378 9.3 | 73453.7 | -2726.3 | 4468 10.0 | 73900.7 | -2739.3 | 4558 10.0 | 74309.6 | -2738.3 | 4648 9.5 | 74700.8 | -2720.5 |
| 4379 10.0 | 73456.0 | -2745.6 | 4469 10.0 | 73906.2 | -2743.0 | 4559 9.6 | 74313.1 | -2759.6 | 4649 9.6 | 74704.8 | -2713.5 |
| 4380 9.7 | 73500.0 | -2716.8 | 4470 8.6 | 73906.4 | -2725.3 | 4560 9.7 | 74315.3 | -2714.3 | 4650 9.7 | 74704.8 | -2713.5 |
| 4381 10.0 | 73500.5 | -2711.8 | 4471 9.4 | 73907.1 | -2750.6 | 4561 9.4 | 74319.6 | -2733.8 | 4651 10.0 | 74706.1 | -2726.0 |
| 4382 9.8 | 73501.7 | -2702.9 | 4472 9.9 | 73909.2 | -2710.5 | 4562 9.3 | 74322.4 | -2753.8 | 4652 9.8 | 74711.2 | -2743.0 |
| 4383 9.7 | 73505.0 | -2722.3 | 4473 9.6 | 73910.5 | -2713.5 | 4563 9.6 | 74324.5 | -2711.6 | 4653 9.5 | 74713.4 | -2735.5 |
| 4384 10.0 | 73517.0 | -2707.3 | 4474 9.9 | 73912.4 | -2704.4 | 4564 10.0 | 74324.5 | -2748.3 | 4654 10.0 | 74714.8 | -2721.3 |
| 4385 10.0 | 73521.8 | -2721.3 | 4475 9.9 | 73912.5 | -2759.1 | 4565 9.3 | 74325.8 | -2746.8 | 4655 9.8 | 74717.1 | -2744.1 |
| 4386 10.0 | 73523.0 | -2750.0 | 4476 10.0 | 73917.5 | -2718.8 | 4566 9.6 | 74329.4 | -2720.8 | 4656 9.6 | 74717.5 | -2713.3 |
| 4387 9.9 | 73523.8 | -2758.5 | 4477 9.3 | 73925.6 | -2745.3 | 4567 10.0 | 74329.6 | -2730.3 | 4657 9.5 | 74718.8 | -2716.3 |
| 4388 10.0 | 73524.6 | -2742.1 | 4478 9.7 | 73926.8 | -2758.1 | 4568 9.6 | 74331.1 | -2759.3 | 4658 9.9 | 74722.2 | -2741.3 |
| 4389 8.0 | 73526.9 | -2755.5 | 4479 9.8 | 73929.8 | -2728.8 | 4569 10.0 | 74334.0 | -2718.3 | 4659 9.6 | 74724.4 | -2727.5 |
| 4390 9.5 | 73532.4 | -2722.3 | 4480 10.0 | 73932.3 | -2737.8 | 4570 10.0 | 74340.6 | -2743.1 | 4660 10.0 | 74724.4 | -2759.8 |
| 4391 10.0 | 73534.2 | -2723.8 | 4481 10.0 | 73934.6 | -2746.0 | 4571 10.0 | 74342.2 | -2726.8 | 4661 9.3 | 74725.3 | -2709.5 |
| 4392 10.0 | 73537.0 | -2703.9 | 4482 9.7 | 73937.4 | -2718.3 | 4572 9.8 | 74343.0 | -2746.8 | 4662 9.6 | 74727.6 | -2759.3 |
| 4393 7.0 | 73540.1 | -2739.5 | 4483 10.0 | 73938.0 | -2713.3 | 4573 8.6 | 74343.3 | -2706.1 | 4663 10.0 | 74733.0 | -2757.8 |
| 4394 10.0 | 73543.3 | -2713.8 | 4484 9.9 | 73941.6 | -2725.3 | 4574 8.7 | 74344.2 | -2738.5 | 4664 10.0 | 74733.8 | -2727.5 |
| 4395 10.0 | 73553.9 | -2754.5 | 4485 9.7 | 73941.8 | -2746.7 | 4575 9.5 | 74349.8 | -2727.6 | 4665 10.0 | 74736.8 | -2744.3 |
| 4396 9.9 | 73554.2 | -2735.8 | 4486 9.8 | 73943.6 | -2715.2 | 4576 9.7 | 74354.1 | -2724.1 | 4666 8.9 | 74737.2 | -2739.4 |
| 4397 10.0 | 73558.2 | -2710.8 | 4487 9.9 | 73944.4 | -2703.9 | 4577 9.3 | 74355.6 | -2739.1 | 4667 9.7 | 74737.3 | -2707.6 |
| 4398 9.5 | 73559.6 | -2744.6 | 4488 9.5 | 73950.6 | -2729.3 | 4578 10.0 | 74355.8 | -2705.6 | 4668 9.4 | 74738.0 | -2717.1 |
| 4399 10.0 | 73602.6 | -2749.0 | 4489 9.9 | 73952.0 | -2720.3 | 4579 9.8 | 74357.0 | -2708.8 | 4669 10.0 | 74740.0 | -2741.8 |
| 4400 10.0 | 73608.1 | -2750.0 | 4490 10.0 | 73957.1 | -2745.3 | 4580 9.1 | 74404.9 | -2754.3 | 4670 9.5 | 74743.1 | -2706.6 |
| 4401 10.0 | 73608.3 | -2734.3 | 4491 9.6 | 73957.9 | -2753.1 | 4581 9.7 | 74406.4 | -2742.7 | 4671 9.6 | 74743.1 | -2745.6 |
| 4402 9.6 | 73610.4 | -2717.0 | 4492 9.6 | 74008.2 | -2749.1 | 4582 9.2 | 74408.3 | -2731.6 | 4672 10.0 | 74743.8 | -2759.3 |
| 4403 9.5 | 73619.5 | -2720.3 | 4493 9.6 | 74009.7 | -2711.1 | 4583 10.0 | 74409.9 | -2743.8 | 4673 9.8 | 74746.0 | -2709.2 |
| 4404 10.0 | 73620.3 | -2715.3 | 4494 8.1 | 74012.2 | -2720.8 | 4584 9.9 | 74413.0 | -2756.3 | 4674 9.1 | 74751.0 | -2752.3 |
| 4405 | | | | | | | | | | | |

-27 4683 7h48m

4683 9.4 74811.9 -2739.1
4684 9.4 74816.1 -2749.3
4685 10.0 74818.3 -2758.3
4686 10.0 74818.7 -2744.3
4687 9.9 74819.5 -2756.8
4688 9.8 74823.6 -2714.8
4689 8.6 74829.9 -2708.5
4690 9.8 74831.1 -2731.5
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-27 5042 8h02m

-27 5043 8h02m

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| 5070 | 9.9 | 80340.5 | -2735.6 | 5160 | 10.0 | 80800.0 | -2712.5 | 5250 | 10.0 | 81140.9 | -2701.0 | 5340 | 10.0 | 81535.3 | -2710.0 |
| 5071 | 10.0 | 80343.8 | -2714.2 | 5161 | 9.9 | 80800.8 | -2743.7 | 5251 | 9.7 | 81143.8 | -2714.8 | 5341 | 9.3 | 81537.0 | -2714.4 |
| 5072 | 10.0 | 80345.4 | -2718.1 | 5162 | 9.2 | 80801.8 | -2709.0 | 5252 | 9.7 | 81144.3 | -2728.0 | 5342 | 9.6 | 81539.2 | -2721.4 |
| | | | | | | | | | | | | | | | |
| 5073 | 9.7 | 80347.2 | -2719.1 | 5163 | 8.1 | 80803.8 | -2728.5 | 5253 | 9.9 | 81150.5 | -2745.9 | 5343 | 9.6 | 81539.3 | -2728.4 |
| 5074 | 9.4 | 80347.3 | -2714.5 | 5164 | 9.9 | 80804.0 | -2700.5 | 5254 | 8.7 | 81152.9 | -2709.8 | 5344 | 10.0 | 81540.8 | -2741.8 |
| 5075 | 10.0 | 80349.6 | -2745.3 | 5165 | 9.7 | 80804.2 | -2720.5 | 5255 | 9.5 | 81153.6 | -2700.4 | 5345 | 10.0 | 81543.7 | -2714.4 |
| 5076 | 9.6 | 80349.8 | -2746.0 | 5166 | 10.0 | 80807.5 | -2730.5 | 5256 | 9.7 | 81154.7 | -2708.5 | 5346 | 9.9 | 81543.9 | -2744.4 |
| 5077 | 9.6 | 80352.9 | -2704.1 | 5167 | 9.9 | 80813.2 | -2709.8 | 5257 | 9.0 | 81156.4 | -2705.0 | 5347 | 9.5 | 81544.1 | -2716.9 |
| 5078 | 10.0 | 80353.5 | -2720.8 | 5168 | 9.7 | 80816.6 | -2757.0 | 5258 | 10.0 | 81203.7 | -2739.5 | 5348 | 9.9 | 81548.2 | -2741.8 |
| 5079 | 9.4 | 80359.9 | -2706.6 | 5169 | 10.0 | 80819.2 | -2741.5 | 5259 | 9.7 | 81204.4 | -2712.8 | 5349 | 9.9 | 81553.7 | -2705.5 |
| 5080 | 9.1 | 80402.0 | -2750.5 | 5170 | 9.9 | 80829.7 | -2712.5 | 5260 | 10.0 | 81208.2 | -2749.2 | 5350 | 9.7 | 81554.4 | -2738.0 |
| 5081 | 10.0 | 80409.0 | -2747.6 | 5171 | 9.9 | 80832.3 | -2711.8 | 5261 | 9.9 | 81211.7 | -2754.4 | 5351 | 10.0 | 81559.7 | -2741.3 |
| 5082 | 10.0 | 80413.6 | -2729.1 | 5172 | 8.4 | 80834.0 | -2709.1 | 5262 | 9.7 | 81214.5 | -2714.4 | 5352 | 9.9 | 81600.9 | -2744.7 |
| | | | | | | | | | | | | | | | |
| 5083 | 9.7 | 80417.7 | -2746.5 | 5173 | 9.7 | 80839.5 | -2729.5 | 5263 | 10.0 | 81218.8 | -2736.6 | 5353 | 9.7 | 81604.6 | -2700.5 |
| 5084 | 9.9 | 80421.3 | -2743.6 | 5174 | 10.0 | 80845.4 | -2701.0 | 5264 | 10.0 | 81220.8 | -2709.5 | 5354 | 9.3 | 81607.7 | -2709.0 |
| 5085 | 7.8 | 80421.4 | -2705.6 | 5175 | 10.0 | 80846.3 | -2748.0 | 5265 | 10.0 | 81222.0 | -2739.4 | 5355 | 9.6 | 81609.8 | -2702.5 |
| 5086 | 9.7 | 80426.0 | -2751.5 | 5176 | 9.6 | 80848.3 | -2719.5 | 5266 | 10.0 | 81222.5 | -2745.5 | 5356 | 9.9 | 81610.9 | -2747.8 |
| 5087 | 9.4 | 80427.3 | -2755.0 | 5177 | 10.0 | 80850.0 | -2734.0 | 5267 | 10.0 | 81224.0 | -2738.8 | 5357 | 9.9 | 81612.6 | -2754.1 |
| 5088 | 10.0 | 80428.4 | -2743.9 | 5178 | 10.0 | 80851.1 | -2700.5 | 5268 | 9.9 | 81225.1 | -2735.9 | 5358 | 9.4 | 81613.8 | -2717.0 |
| 5089 | 9.7 | 80428.6 | -2758.5 | 5179 | 9.3 | 80851.2 | -2722.0 | 5269 | 9.6 | 81229.8 | -2717.9 | 5359 | 10.0 | 81617.2 | -2757.8 |
| 5090 | 8.9 | 80429.2 | -2704.5 | 5180 | 9.9 | 80853.0 | -2747.1 | 5270 | 8.9 | 81238.2 | -2747.8 | 5360 | 9.1 | 81619.5 | -2705.4 |
| 5091 | 9.7 | 80432.3 | -2724.1 | 5181 | 9.8 | 80854.5 | -2756.0 | 5271 | 10.0 | 81238.5 | -2707.5 | 5361 | 9.8 | 81621.0 | -2703.5 |
| 5092 | 9.9 | 80434.9 | -2735.1 | 5182 | 10.0 | 80856.2 | -2731.5 | 5272 | 10.0 | 81239.8 | -2730.4 | 5362 | 10.0 | 81623.1 | -2711.9 |
| | | | | | | | | | | | | | | | |
| 5093 | 9.9 | 80437.9 | -2719.1 | 5183 | 8.5 | 80859.5 | -2739.6 | 5273 | 9.7 | 81240.6 | -2751.1 | 5363 | 9.8 | 81623.1 | -2752.1 |
| 5094 | 9.8 | 80450.7 | -2710.1 | 5184 | 10.0 | 80903.6 | -2754.0 | 5274 | 10.0 | 81246.4 | -2732.9 | 5364 | 9.7 | 81623.1 | -2729.4 |
| 5095 | 9.5 | 80452.9 | -2729.1 | 5185 | 9.1 | 80904.5 | -2713.1 | 5275 | 9.0 | 81248.3 | -2711.3 | 5365 | 9.5 | 81627.3 | -2705.0 |
| 5096 | 9.1 | 80453.1 | -2702.0 | 5186 | 9.9 | 80904.7 | -2745.3 | 5276 | 9.4 | 81249.7 | -2712.4 | 5366 | 10.0 | 81629.7 | -2708.5 |
| 5097 | 9.5 | 80457.9 | -2727.1 | 5187 | 10.0 | 80910.8 | -2753.5 | 5277 | 10.0 | 81249.8 | -2747.2 | 5367 | 10.0 | 81631.5 | -2735.4 |
| 5098 | 9.9 | 80501.6 | -2747.2 | 5188 | 10.0 | 80915.3 | -2729.0 | 5278 | 9.6 | 81251.0 | -2719.4 | 5368 | 9.3 | 81632.8 | -2725.9 |
| 5099 | 10.0 | 80509.0 | -2711.0 | 5189 | 10.0 | 80919.0 | -2736.0 | 5279 | 10.0 | 81254.4 | -2751.2 | 5369 | 9.7 | 81634.0 | -2704.5 |
| 5100 | 10.0 | 80511.5 | -2718.0 | 5190 | 8.2 | 80919.3 | -2702.5 | 5280 | 10.0 | 81302.6 | -2744.8 | 5370 | 9.5 | 81635.8 | -2751.7 |
| 5101 | 8.5 | 80513.6 | -2724.5 | 5191 | 9.6 | 80922.7 | -2738.9 | 5281 | 10.0 | 81302.5 | -2749.3 | 5371 | 10.0 | 81641.1 | -2741.1 |
| 5102 | 9.9 | 80516.0 | -2711.0 | 5192 | 8.2 | 80922.8 | -2723.0 | 5282 | 9.9 | 81305.2 | -2712.4 | 5372 | 9.9 | 81646.0 | -2746.1 |
| | | | | | | | | | | | | | | | |
| 5103 | 9.7 | 80516.0 | -2747.0 | 5193 | 9.3 | 80925.7 | -2754.5 | 5283 | 9.8 | 81305.5 | -2703.0 | 5373 | 9.7 | 81646.9 | -2735.4 |
| 5104 | 9.8 | 80516.7 | -2735.5 | 5194 | 9.7 | 80931.1 | -2736.0 | 5284 | 9.9 | 81306.3 | -2715.9 | 5374 | 9.5 | 81648.2 | -2749.1 |
| 5105 | 9.7 | 80520.3 | -2756.3 | 5195 | 9.4 | 80932.9 | -2732.5 | 5285 | 9.8 | 81308.7 | -2717.4 | 5375 | 9.9 | 81650.6 | -2718.9 |
| 5106 | 9.8 | 80522.0 | -2707.1 | 5196 | 9.7 | 80934.2 | -2731.5 | 5286 | 9.8 | 81313.3 | -2747.6 | 5376 | 9.9 | 81651.8 | -2740.7 |
| 5107 | 9.9 | 80524.6 | -2742.1 | 5197 | 9.4 | 80934.4 | -2706.0 | 5287 | 9.8 | 81314.6 | -2712.4 | 5377 | 9.9 | 81659.3 | -2726.9 |
| 5108 | 10.0 | 80527.9 | -2728.5 | 5198 | 10.0 | 80936.4 | -2707.0 | 5288 | 9.1 | 81315.2 | -2756.9 | 5378 | 10.0 | 81701.4 | -2748.5 |
| 5109 | 10.0 | 80532.3 | -2737.0 | 5199 | 9.5 | 80940.0 | -2754.5 | 5289 | 9.9 | 81320.2 | -2749.8 | 5379 | 10.0 | 81707.6 | -2708.4 |
| 5110 | 9.9 | 80534.0 | -2744.6 | 5200 | | | | | | | | | | | |

-27 5403 8h18m

| | | | | | | | |
|------|------|---------|---------|------|------|---------|---------|
| 5403 | 9.7 | 81811.6 | -2713.4 | 5493 | 9.0 | 82213.3 | -2716.0 |
| 5404 | 8.6 | 81812.6 | -2701.5 | 5494 | 9.8 | 82213.5 | -2748.1 |
| 5405 | 10.0 | 81812.7 | -2735.4 | 5495 | 10.0 | 82216.8 | -2713.3 |
| 5406 | 9.6 | 81812.7 | -2742.9 | 5496 | 7.9 | 82217.4 | -2752.4 |
| 5407 | 9.7 | 81814.3 | -2739.8 | 5497 | 10.0 | 82219.2 | -2727.3 |
| 5408 | 9.8 | 81816.2 | -2734.9 | 5498 | 8.5 | 82221.4 | -2702.5 |
| 5409 | 7.2 | 81820.2 | -2725.4 | 5499 | 9.4 | 82222.5 | -2742.8 |
| 5410 | 9.6 | 81821.9 | -2708.4 | 5500 | 9.5 | 82227.5 | -2708.4 |
| 5411 | 9.3 | 81823.3 | -2715.0 | 5501 | 10.0 | 82231.4 | -2716.3 |
| 5412 | 9.9 | 81824.5 | -2743.1 | 5502 | 10.0 | 82236.5 | -2745.1 |
| 5413 | 9.3 | 81831.4 | -2707.8 | 5503 | 9.5 | 82237.0 | -2701.0 |
| 5414 | 9.8 | 81833.9 | -2709.1 | 5504 | 9.5 | 82237.0 | -2711.8 |
| 5415 | 9.1 | 81845.7 | -2751.1 | 5505 | 9.9 | 82242.3 | -2701.5 |
| 5416 | 10.0 | 81850.7 | -2754.3 | 5506 | 9.6 | 82243.9 | -2716.3 |
| 5417 | 10.0 | 81852.0 | -2733.4 | 5507 | 9.6 | 82246.1 | -2748.7 |
| 5418 | 9.8 | 81855.5 | -2708.4 | 5508 | 9.5 | 82252.2 | -2720.3 |
| 5419 | 9.8 | 81856.4 | -2713.0 | 5509 | 9.9 | 82254.7 | -2745.1 |
| 5420 | 10.0 | 81902.3 | -2739.1 | 5510 | 9.8 | 82257.1 | -2747.7 |
| 5421 | 9.8 | 81906.6 | -2705.1 | 5511 | 10.0 | 82257.4 | -2751.1 |
| 5422 | 9.9 | 81909.2 | -2700.5 | 5512 | 7.6 | 82258.7 | -2709.7 |
| 5423 | 9.9 | 81910.1 | -2752.5 | 5513 | 9.5 | 82259.2 | -2707.4 |
| 5424 | 9.7 | 81911.3 | -2754.8 | 5514 | 9.8 | 82259.7 | -2743.1 |
| 5425 | 10.0 | 81912.5 | -2716.3 | 5515 | 9.7 | 82310.4 | -2730.3 |
| 5426 | 10.0 | 81912.9 | -2707.1 | 5516 | 8.6 | 82318.3 | -2756.7 |
| 5427 | 9.3 | 81914.1 | -2751.1 | 5517 | 10.0 | 82320.0 | -2742.2 |
| 5428 | 9.1 | 81916.4 | -2714.3 | 5518 | 10.0 | 82323.4 | -2725.8 |
| 5429 | 9.0 | 81921.0 | -2725.8 | 5519 | 10.0 | 82324.8 | -2709.4 |
| 5430 | 9.1 | 81921.5 | -2701.5 | 5520 | 9.9 | 82325.7 | -2710.4 |
| 5431 | 9.8 | 81921.7 | -2751.1 | 5521 | 9.7 | 82328.0 | -2730.3 |
| 5432 | 10.0 | 81924.8 | -2742.4 | 5522 | 9.9 | 82333.3 | -2713.6 |
| 5433 | 9.7 | 81931.2 | -2741.2 | 5523 | 9.8 | 82335.3 | -2728.3 |
| 5434 | 9.7 | 81934.0 | -2739.4 | 5524 | 9.8 | 82336.7 | -2757.4 |
| 5435 | 9.8 | 81934.1 | -2722.8 | 5525 | 9.1 | 82337.4 | -2704.0 |
| 5436 | 9.9 | 81935.8 | -2710.9 | 5526 | 10.0 | 82338.4 | -2715.3 |
| 5437 | 9.4 | 81939.7 | -2706.4 | 5527 | 9.5 | 82340.3 | -2749.5 |
| 5438 | 10.0 | 81941.0 | -2707.7 | 5528 | 9.1 | 82342.5 | -2733.3 |
| 5439 | 10.0 | 81945.3 | -2717.3 | 5529 | 10.0 | 82345.4 | -2710.0 |
| 5440 | 9.6 | 81945.7 | -2757.1 | 5530 | 9.7 | 82346.1 | -2757.4 |
| 5441 | 9.8 | 81948.2 | -2739.8 | 5531 | 10.0 | 82346.9 | -2728.3 |
| 5442 | 9.6 | 81955.9 | -2723.8 | 5532 | 10.0 | 82354.1 | -2727.3 |
| 5443 | 9.9 | 81959.1 | -2738.1 | 5533 | 10.0 | 82356.3 | -2730.8 |
| 5444 | 10.0 | 82001.2 | -2721.8 | 5534 | 9.0 | 82358.7 | -2721.8 |
| 5445 | 9.9 | 82004.0 | -2734.3 | 5535 | 9.7 | 82359.3 | -2705.0 |
| 5446 | 9.7 | 82004.5 | -2742.6 | 5536 | 8.8 | 82400.0 | -2722.8 |
| 5447 | 8.5 | 82007.9 | -2736.3 | 5537 | 9.8 | 82405.8 | -2741.4 |
| 5448 | 10.0 | 82008.3 | -2745.1 | 5538 | 10.0 | 82410.8 | -2743.2 |
| 5449 | 10.0 | 82015.3 | -2736.3 | 5539 | 10.0 | 82410.9 | -2712.6 |
| 5450 | 10.0 | 82019.1 | -2715.3 | 5540 | 9.3 | 82416.2 | -2747.5 |
| 5451 | 9.4 | 82020.1 | -2749.1 | 5541 | 9.9 | 82417.8 | -2708.3 |
| 5452 | 9.4 | 82020.2 | -2759.4 | 5542 | 9.7 | 82418.1 | -2709.6 |
| 5453 | 10.0 | 82020.7 | -2718.3 | 5543 | 10.0 | 82419.9 | -2725.3 |
| 5454 | 10.0 | 82025.2 | -2751.3 | 5544 | 10.0 | 82420.7 | -2752.3 |
| 5455 | 9.7 | 82026.4 | -2752.7 | 5545 | 9.9 | 82424.6 | -2720.3 |
| 5456 | 10.0 | 82030.2 | -2733.8 | 5546 | 10.0 | 82426.4 | -2700.5 |
| 5457 | 10.0 | 82030.3 | -2745.0 | 5547 | 9.9 | 82435.8 | -2739.3 |
| 5458 | 10.0 | 82033.0 | -2754.4 | 5548 | 9.5 | 82437.7 | -2739.1 |
| 5459 | 8.9 | 82038.3 | -2738.1 | 5549 | 9.5 | 82439.7 | -2731.3 |
| 5460 | 9.9 | 82045.1 | -2756.7 | 5550 | 9.6 | 82440.1 | -2706.0 |
| 5461 | 10.0 | 82045.6 | -2739.1 | 5551 | 9.6 | 82441.1 | -2753.4 |
| 5462 | 9.5 | 82051.6 | -2710.3 | 5552 | 10.0 | 82444.9 | -2751.3 |
| 5463 | 10.0 | 82054.1 | -2737.3 | 5553 | 10.0 | 82445.0 | -2728.2 |
| 5464 | 10.0 | 82054.5 | -2747.7 | 5554 | 10.0 | 82450.4 | -2737.8 |
| 5465 | 9.6 | 82105.6 | -2705.1 | 5555 | 9.9 | 82454.4 | -2716.3 |
| 5466 | 10.0 | 82108.0 | -2711.3 | 5556 | 9.9 | 82456.0 | -2753.4 |
| 5467 | 10.0 | 82112.1 | -2757.7 | 5557 | 9.7 | 82503.7 | -2733.8 |
| 5468 | 9.8 | 82116.5 | -2713.3 | 5558 | 9.4 | 82503.8 | -2756.4 |
| 5469 | 9.6 | 82117.6 | -2751.1 | 5559 | 10.0 | 82505.7 | -2748.1 |
| 5470 | 9.1 | 82118.2 | -2726.3 | 5560 | 9.6 | 82506.9 | -2723.3 |
| 5471 | 10.0 | 82119.2 | -2749.4 | 5561 | 9.9 | 82512.1 | -2709.4 |
| 5472 | 10.0 | 82119.4 | -2708.5 | 5562 | 9.9 | 82520.1 | -2745.7 |
| 5473 | 9.6 | 82119.9 | -2744.4 | 5563 | 7.5 | 82523.3 | -2724.5 |
| 5474 | 10.0 | 82124.2 | -2746.4 | 5564 | 9.9 | 82524.0 | -2740.1 |
| 5475 | 9.9 | 82126.9 | -2744.1 | 5565 | 9.0 | 82532.1 | -2702.7 |
| 5476 | 10.0 | 82128.5 | -2744.0 | 5566 | 9.3 | 82535.8 | -2735.2 |
| 5477 | 9.8 | 82128.5 | -2754.5 | 5567 | 10.0 | 82538.4 | -2729.1 |
| 5478 | 9.5 | 82131.7 | -2725.8 | 5568 | 10.0 | 82540.1 | -2744.2 |
| 5479 | 10.0 | 82138.6 | -2703.0 | 5569 | 10.0 | 82541.5 | -2727.6 |
| 5480 | 9.8 | 82161.4 | -2724.8 | 5570 | 10.0 | 82542.8 | -2707.3 |
| 5481 | 10.0 | 82165.4 | -2754.0 | 5571 | 9.4 | 82543.1 | -2740.8 |
| 5482 | 9.9 | 82166.4 | -2748.9 | 5572 | 9.7 | 82545.5 | -2728.5 |
| 5483 | 10.0 | 82168.8 | -2709.1 | 5573 | 9.9 | 82547.3 | -2722.2 |
| 5484 | 9.0 | 82150.8 | -2753.8 | 5574 | 10.0 | 82548.7 | -2736.6 |
| 5485 | 9.6 | 82151.5 | -2716.7 | 5575 | 10.0 | 82550.8 | -2732.6 |
| 5486 | 10.0 | 82152.7 | -2709.5 | 5576 | 9.2 | 82554.5 | -2713.5 |
| 5487 | 9.4 | 82152.9 | -2747.5 | 5577 | 8.5 | 82604.2 | -2759.3 |
| 5488 | 9.4 | 82155.8 | -2759.1 | 5578 | 10.0 | 82606.6 | -2740.8 |
| 5489 | 10.0 | 82156.1 | -2728.3 | 5579 | 9.6 | 82616.8 | -2748.7 |
| 5490 | 9.9 | 82158.8 | -2758.4 | 5580 | 9.7 | 82619.1 | -2727.2 |
| 5491 | 9.8 | 82205.0 | -2734.8 | 5581 | 9.8 | 82620.3 | -2747.5 |
| 5492 | 10.0 | 82209.6 | -2758.9 | 5582 | 9.2 | 82623.0 | -2720.2 |

-27 5762 8h34m

| | | | | | | | |
|------|------|---------|---------|------|------|---------|---------|
| 5583 | 10.0 | 82624.8 | -2700.2 | 5673 | 9.6 | 83026.5 | -2740.0 |
| 5584 | 9.8 | 82627.9 | -2744.7 | 5674 | 9.9 | 83029.8 | -2706.9 |
| 5585 | 9.6 | 82628.2 | -2756.1 | 5675 | 9.2 | 83031.3 | -2731.8 |
| 5586 | 8.7 | 82631.4 | -2730.5 | 5676 | 10.0 | 83033.4 | -2703.5 |
| 5587 | 8.8 | 82632.0 | -2700.7 | 5677 | 10.0 | 83036.7 | -2721.5 |
| 5588 | 9.9 | 82642.1 | -2738.9 | 5678 | 10.0 | 83040.1 | -2729.8 |
| 5589 | 9.9 | 82645.5 | -2752.7 | 5679 | 9.8 | 83040.3 | -2706.5 |
| 5590 | 9.8 | 82645.0 | -2744.4 | 5680 | 10.0 | 83043.4 | -2702.1 |
| 5591 | 9.7 | 82647.9 | -2750.7 | 5681 | 10.0 | 83044.0 | -2733.2 |
| 5592 | 8.1 | 82649.8 | -2704.0 | 5682 | 10.0 | 83044.9 | -2708.1 |
| 5593 | 9.7 | 82651.6 | -2754.1 | 5683 | 10.0 | 83045.4 | -2739.5 |
| 5594 | 10.0 | 82654.9 | -2732.6 | 5684 | 10.0 | 83047.3 | -2718.8 |
| 5595 | 9.8 | 82655.3 | -2746.5 | 5685 | 9.9 | 83048.5 | -2731.8 |
| 5596 | 9.7 | 82658.0 | -2743.4 | 5686 | 10.0 | 83050.5 | -2723.5 |
| 5597 | 9.7 | 82702.2 | -2704.0 | 5687 | 9.7 | 83053.2 | -2727.5 |
| 5598 | 9.9 | 82706.6 | -2757.8 | 5688 | 9.8 | 83101.2 | -2718.1 |
| 5599 | 10.0 | 82709.7 | -2724.1 | 5689 | 9.5 | 83101.6 | -2702.3 |
| 5600 | 9.7 | 82713.8 | -2755.1 | 5690 | 9.4 | 83104.1 | -2754.4 |
| 5601 | 9.0 | 82713.8 | -2700.7 | 5691 | 9.9 | 83104.1 | -2736.1 |
| 5602 | 10.0 | 82716.4 | -2727.6 | 5692 | 7.9 | 83109.3 | -2739.1 |
| 5603 | 9.6 | 82717.6 | -2715.5 | 5693 | 9.0 | 83111.4 | -2717.8 |
| 5604 | 10.0 | 82719.4 | -2741.6 | 5694 | 9.9 | 83112.0 | -2709.8 |
| 5605 | 9.9 | 82726.9 | -2745.4 | 5695 | 8.9 | 83113.8 | -2741.6 |
| 5606 | 10.0 | 82730.6 | -2754.3 | 5696 | 10.0 | 83119.8 | -2726.2 |
| 5607 | 10.0 | 82735.0 | -2719.6 | 5697 | 10.0 | 83122.3 | -2721.7 |
| 5608 | 10.0 | 82735.0 | -2732.1 | 5698 | 9.3 | 83125.0 | -2712.8 |
| 5609 | 10.0 | 82737.0 | -2707.0 | 5699 | 10.0 | 83125.1 | -2732.1 |
| 5610 | 10.0 | 82737.8 | -2757.1 | 5700 | 10.0 | 83127.4 | -2718.1 |
| 5611 | 9.2 | 82738.2 | -2755.7 | 5701 | 10.0 | 83129.5 | -2716.2 |
| 5612 | 10.0 | 82739.4 | -2709.8 | 5702 | 10.0 | 83134.8 | -2717.1 |
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| | | | | | | | | | | | | | | | |
|------|------|----------|---------|------|------|----------|---------|------|------|----------|---------|-------|------|----------|---------|
| 9723 | 10.0 | 140953.3 | -2735.0 | 9813 | 10.0 | 141654.4 | -2757.3 | 9903 | 9.7 | 142607.7 | -2728.0 | 9993 | 10.0 | 143517.6 | -2729.8 |
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| 9733 | 10.0 | 141039.9 | -2739.1 | 9823 | 10.0 | 141745.6 | -2749.6 | 9913 | 10.0 | 142717.5 | -2746.4 | 10003 | 9.5 | 143555.4 | -2718.5 |
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| 9735 | 10.0 | 141052.5 | -2708.5 | 9825 | 9.5 | 141747.2 | -2715.0 | 9915 | 9.5 | 142725.8 | -2741.3 | 10005 | 9.8 | 143558.0 | -2742.4 |
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| 9781 | 8.5 | 141416.0 | -2731.4 | 9871 | 9.9 | 142249.7 | -2702.0 | 9961 | 10.0 | 143215.5 | -2755.0 | 10051 | 7.8 | 144022.8 | -2710.6 |
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-2710803 16h00m

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-2712242 17h52m

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-2712243 17h52m

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|-------|------|----------|---------|-------|------|----------|---------|-------|------|----------|---------|-------|------|----------|---------|
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| 12246 | 10.0 | 175302.3 | -2748.0 | 12336 | 10.0 | 175610.8 | -2732.7 | 12426 | 9.8 | 175941.5 | -2729.4 | 12516 | 10.0 | 180258.9 | -2712.0 |
| 12247 | 10.0 | 175304.9 | -2744.7 | 12337 | 10.0 | 175613.0 | -2752.5 | 12427 | 10.0 | 175942.7 | -2717.2 | 12517 | 10.0 | 180307.7 | -2723.6 |
| 12248 | 10.0 | 175306.0 | -2703.0 | 12338 | 10.0 | 175624.0 | -2718.5 | 12428 | 10.0 | 175947.0 | -2710.6 | 12518 | 9.6 | 180309.2 | -2724.8 |
| 12249 | 10.0 | 175307.3 | -2718.0 | 12339 | 10.0 | 175625.5 | -2725.4 | 12429 | 9.9 | 175947.9 | -2739.1 | 12519 | 10.0 | 180309.6 | -2746.8 |
| 12250 | 10.0 | 175308.2 | -2701.0 | 12340 | 10.0 | 175630.6 | -2709.5 | 12430 | 10.0 | 175951.0 | -2758.7 | 12520 | 9.7 | 180318.0 | -2751.2 |
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| 12255 | 9.9 | 175326.9 | -2713.5 | 12345 | 9.9 | 175641.3 | -2729.4 | 12435 | 10.0 | 180002.1 | -2705.5 | 12525 | 10.0 | 180338.3 | -2722.8 |
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| 12257 | 10.0 | 175332.5 | -2728.4 | 12347 | 9.0 | 175648.9 | -2751.5 | 12437 | 10.0 | 180004.6 | -2733.3 | 12527 | 9.7 | 180343.0 | -2725.2 |
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| 12259 | 9.4 | 175344.2 | -2739.3 | 12349 | 10.0 | 175650.9 | -2739.8 | 12439 | 9.9 | 180004.9 | -2740.7 | 12529 | 9.5 | 180347.5 | -2719.7 |
| 12260 | 10.0 | 175345.1 | -2731.4 | 12350 | 10.0 | 175652.2 | -2717.8 | 12440 | 10.0 | 180006.1 | -2709.5 | 12530 | 9.9 | 180358.8 | -2759.5 |
| 12261 | 10.0 | 175346.1 | -2749.4 | 12351 | 10.0 | 175652.6 | -2707.1 | 12441 | 9.4 | 180010.4 | -2708.4 | 12531 | 10.0 | 180359.1 | -2711.8 |
| 12262 | 10.0 | 175347.7 | -2706.7 | 12352 | 9.9 | 175653.9 | -2731.0 | 12442 | 10.0 | 180010.4 | -2729.7 | 12532 | 10.0 | 180403.1 | -2722.5 |
| 12263 | 9.5 | 175349.2 | -2757.1 | 12353 | 9.8 | 175656.6 | -2753.5 | 12443 | 10.0 | 180012.7 | -2721.8 | 12533 | 8.5 | 180408.2 | -2750.1 |
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| 12265 | 9.4 | 175352.7 | -2700.5 | 12355 | 9.8 | 175707.6 | -2737.8 | 12445 | 9.7 | 180018.0 | -2745.2 | 12535 | 10.0 | 180416.6 | -2705.7 |
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| 12268 | 9.9 | 175358.2 | -2752.0 | 12358 | 8.9 | 175712.6 | -2705.7 | 12448 | 9.4 | 180031.4 | -2725.0 | 12538 | 10.0 | 180420.2 | -2750.7 |
| 12269 | 9.0 | 175358.2 | -2752.0 | 12359 | 9.8 | 175713.4 | -2748.4 | 12449 | 9.8 | 180032.6 | -2727.4 | 12539 | 9.9 | 180423.8 | -2724.9 |
| 12270 | 9.4 | 175400.4 | -2743.1 | 12360 | 8.5 | 175715.6 | -2707.9 | 12450 | 8.2 | 180034.1 | -2739.8 | 12540 | 10.0 | 180423.9 | -2717.2 |
| 12271 | 10.0 | 175408.1 | -2726.5 | 12361 | 9.9 | 175717.2 | -2711.0 | 12451 | 9.7 | 180036.2 | -2731.1 | 12541 | 10.0 | 180424.4 | -2720.0 |
| 12272 | 8.3 | 175411.3 | -2730.4 | 12362 | 9.5 | 175720.3 | -2709.7 | 12452 | 9.8 | 180041.0 | -2716.9 | 12542 | 10.0 | 180424.9 | -2707.4 |
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| 12275 | 9.9 | 175413.4 | -2706.6 | 12365 | 9.9 | 175720.6 | -2751.5 | 12455 | 9.0 | 180047.4 | -2719.3 | 12545 | 9.4 | 180426.6 | -2744.7 |
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| 12277 | 9.6 | 175415.6 | -2759.8 | 12367 | 9.0 | 175727.4 | -2742.4 | 12457 | 10.0 | 180049.6 | -2700.0 | 12547 | 9.5 | 180431.9 | -2739.3 |
| 12278 | 10.0 | 175421.5 | -2704.1 | 12368 | 10.0 | 175727.8 | -2709.0 | 12458 | 10.0 | 180053.6 | -2733.4 | 12548 | 10.0 | 180432.3 | -2707.4 |
| 12279 | 10.0 | 175422.6 | -2714.5 | 12369 | 8.1 | 175728.0 | -2750.1 | 12459 | 9.7 | 180057.1 | -2732.4 | 12549 | 8.9 | 180436.7 | -2756.7 |
| 12280 | 10.0 | 175422.6 | -2714.5 | 12370 | 10.0 | 175728.5 | -2758.0 | 12460 | 10.0 | 180057.9 | -2750.7 | 12550 | 9.4 | 180438.2 | -2700.5 |
| 12281 | 10.0 | 175422.7 | -2755.5 | 12371 | 10.0 | 175732.7 | -2757.5 | 12461 | 10.0 | 180058.8 | -2703.5 | 12551 | 10.0 | 180442.7 | -2719.6 |
| 12282 | 9.7 | 175425.0 | -2755.5 | 12372 | 9.7 | 175734.5 | -2714.5 | 12462 | 10.0 | 180100.7 | -2721.7 | 12552 | 10.0 | 180445.7 | -2715.2 |
| 12283 | 10.0 | 175425.8 | -2742.9 | 12373 | 9.7 | 175735.8 | -2718.2 | 12463 | 7.6 | 180101.8 | -2747.9 | 12553 | 10.0 | 180447.2 | -2700.5 |
| 12284 | 9.7 | 175427.9 | -2720.4 | 12374 | 10.0 | 175742.0 | -2734.4 | 12464 | 10.0 | 180105.9 | -2739.0 | 12554 | 9.5 | 180449.3 | -2710.1 |
| 12285 | 10.0 | 175432.3 | -2734.0 | 12375 | 9.6 | 175742.5 | -2752.1 | 12465 | 8.8 | 180106.7 | -2745.2 | 12555 | 9.0 | 180451.0 | -2738.0 |
| 12286 | 9.7 | 175432.9 | -2727.8 | 12376 | 9.4 | 175745.9 | -2705.4 | 12466 | 10.0 | 180108.9 | -2705.0 | 12556 | 10.0 | 180453.3 | -2713.8 |
| 12287 | 9.3 | 175434.5 | -2756.7 | 12377 | 10.0 | 175747.0 | -2721.1 | 12467 | 10.0 | 180108.9 | -2730.4 | 12557 | 10.0 | 180454.6 | -2724.2 |
| 12288 | 9.7 | 175437.9 | -2725.4 | 12378 | 9.7 | 175747.7 | -2753.5 | 12468 | 10.0 | 180111.4 | -2713.9 | 12558 | 9.9 | 180502.2 | -2707.4 |
| 12289 | 9.9 | 175440.0 | -2752.5 | 12379 | 10.0 | 175748.5 | -2759.4 | 12469 | 9.5 | 180116.1 | -2712.3 | 12559 | 10.0 | 180503.9 | -2719.3 |
| 12290 | 9.7 | 175441.4 | -2746.4 | 12380 | 10.0 | 175750.4 | -2709.4 | 12470 | 9.4 | 180117.2 | -2706.0 | 12560 | 10.0 | 180505.2 | -2756.8 |
| 12291 | 10.0 | 175444.9 | -2730.4 | 12381 | 9.8 | 175758.2 | -2751.5 | 12471 | 10.0 | 180119.5 | -2752.2 | 12561 | 10.0 | 180505.7 | -2705.9 |
| 12292 | 10.0 | 175445.0 | -2758.0 | 12382 | 10.0 | 175758.7 | -2732.4 | 12472 | 10.0 | 180121.3 | -2732.4 | 12562 | 10.0 | 180511.0 | -2730.0 |
| 12293 | 9.1 | 175447.3 | -2715.9 | 12383 | 10.0 | 175801.2 | -2701.4 | 12473 | 9.7 | 180123.3 | -2746.1 | 12563 | 9.9 | 180514.4 | -2726.0 |
| 12294 | 10.0 | 175450.9 | -2759.4 | 12384 | 8.9 | 175802.3 | -2747.7 | 12474 | 7.3 | 180124.9 | -2745.2 | 12564 | 10.0 | 180517.3 | -2737.5 |
| 12295 | 10.0 | 175453.2 | -2751.6 | 12385 | 10.0 | 175804.0 | -2757.3 | 12475 | 10.0 | 180128.5 | -2717.3 | 12565 | 9.5 | 180521.4 | -2738.3 |
| 12296 | 10.0 | 175453.7 | -2723.1 | 12386 | 9.3 | 175805.3 | -2705.0 | 12476 | 9.9 | 180129.2 | -2718.2 | 12566 | 10.0 | 180529.0 | -2747.8 |
| 12297 | 9.9 | 175454.6 | -2750.5 | 12387 | 10.0 | 175810.2 | -2726.0 | 12477 | 10.0 | 180131.4 | -2722.4 | 12567 | 8.0 | 180529.1 | -2714.5 |
| 12298 | 9.9 | 175456.2 | -2716.8 | 12388 | 9.3 | 175810.5 | -2731.4 | 12478 | 9.7 | 180132.4 | -2758.5 | 12568 | 10.0 | 180530.7 | -2729.4 |
| 12299 | 8.5 | 175456.2 | -2704.1 | 12389 | 9.9 | 175813.7 | -2749.5 | 12479 | 10.0 | 180133.5 | -2725.9 | 12569 | 10.0 | 180530.9 | -2721.2 |
| 12300 | 10.0 | 175458.1 | -2721.1 | 12390 | 9.7 | 175817.3 | -2730.2 | 12480 | 9.7 | 180134.8 | -2707.7 | 12570 | 9.9 | 180531.6 | -2730.3 |
| 12301 | 9.9 | 175500.2 | -2718.1 | 12391 | 10.0 | 175820.6 | -2706.5 | 12481 | 10.0 | 180137.0 | -2741.8 | 12571 | 10.0 | 180532.6 | -2715.4 |
| 12302 | 7.4 | 175502.6 | -2749.4 | 12392 | 10.0 | 175820.6 | -2704.4 | 12482 | 9.7 | 180139.8 | -2752.7 | 12572 | 9.2 | 180539.4 | -2755.1 |
| 12303 | 10.0 | 175505.7 | -2742.8 | 12393 | 8.0 | 175821.8 | -2729.8 | 12483 | 9.5 | 180147.2 | -2707.0 | 12573 | 10.0 | 180541.3 | -2726.0 |
| 12304 | 9.9 | 175507.6 | -2728.4 | 12394 | 10.0 | 175823.9 | -2739.0 | 12484 | 9.4 | 180150.0 | -2738.0 | 12574 | 10.0 | 180547.5 | -2711.1 |
| 12305 | 10.0 | 175507.7 | -2705.1 | 12395 | 9.8 | 175826.3 | -2732.7 | 12485 | 10.0 | 180150.4 | -2714.7 | 12575 | 9.6 | 180550.5 | -2709.1 |
| 12306 | 10.0 | 175516.7 | -2738.4 | 12396 | 9.9 | 175827.0 | -2738.3 | 12486 | 10.0 | 180152.2 | -2713.8 | 12576 | 9.8 | 180552.2 | -2743.1 |
| 12307 | 8.8 | 175517.6 | -2719.2 | 12397 | 10.0 | 175828.8 | -2718.2 | 12487 | 10.0 | 180154.0 | -2754.2 | 12577 | 9.6 | 180553.0 | -2710.0 |
| 12308 | 9.8 | 175517.6 | -2728.0 | 12398 | 9.8 | 175836.3 | -2744.8 | 12488 | 10.0 | 180156.4 | -2730.2 | 12578 | 9.5 | 180554.5 | -2756.2 |
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| 12310 | 9.0 | 175519.7 | -2751.0 | 12400 | 9.5 | 175841.9 | -2745.1 | 12490 | 9.7 | 180200.1 | -2713.0 | 12580 | 10.0 | 180557.9 | -2712.9 |
| 12311 | 9.7 | 175521.0 | -2706.0 | 12401 | 10.0 | 175844.2 | -2738.3 | 12491 | 9.9 | 180200.3 | -2704.0 | 12581 | 10.0 | 180602.9 | -2721.9 |
| 12312 | 10.0 | 175527.0 | -2721.0 | 12402 | 10.0 | 175844.8 | -2700.0 | 12492 | 10.0 | 180200.8 | -2749.3 | 12582 | 10.0 | 180604.4 | -2708.2 |
| 12313 | 9 | | | | | | | | | | | | | | |

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12603 10.0 180655.2 -2711.3
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-2714402 19h49m

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-2714762 20h15m

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-2715843 22h09m

-2716202 23h03m

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-28 741 2h14m

| | | | | | | | | | | | | | | | |
|-----|------|---------|---------|-----|------|---------|---------|-----|------|---------|---------|------|------|---------|---------|
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| 773 | 9.2 | 22012.0 | -2853.1 | 863 | 8.0 | 23604.3 | -2807.3 | 953 | 9.2 | 25151.9 | -2829.8 | 1043 | 10.0 | 30526.6 | -2821.5 |
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| 775 | 9.9 | 22037.9 | -2810.3 | 865 | 9.6 | 23614.9 | -2833.5 | 955 | 10.0 | 25158.9 | -2839.6 | 1045 | 10.0 | 30534.4 | -2850.1 |
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| 778 | 9.5 | 22045.0 | -2835.2 | 868 | 9.6 | 23628.7 | -2835.5 | 958 | 10.0 | 25215.9 | -2859.7 | 1048 | 10.0 | 30551.4 | -2841.1 |
| 779 | 10.0 | 22120.5 | -2801.3 | 869 | 8.5 | 23631.5 | -2828.5 | 959 | 8.4 | 25217.2 | -2809.9 | 1049 | 10.0 | 30559.9 | -2804.4 |
| 780 | 9.6 | 22125.9 | -2810.8 | 870 | 7.2 | 23724.8 | -2840.8 | 960 | 10.0 | 25218.1 | -2827.1 | 1050 | 9.9 | 30606.0 | -2826.1 |
| 781 | 10.0 | 22129.5 | -2839.3 | 871 | 9.3 | 23731.0 | -2802.3 | 961 | 8.6 | 25222.1 | -2857.4 | 1051 | 9.7 | 30614.3 | -2816.9 |
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| 783 | 9.9 | 22152.0 | -2850.1 | 873 | 10.0 | 23802.9 | -2816.4 | 963 | 8.4 | 25229.2 | -2811.9 | 1053 | 10.0 | 30623.3 | -2829.9 |
| 784 | 8.6 | 22156.6 | -2811.8 | 874 | 10.0 | 23815.3 | -2851.6 | 964 | 9.9 | 25242.6 | -2819.1 | 1054 | 10.0 | 30627.2 | -2839.1 |
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| 793 | 10.0 | 22410.5 | -2829.8 | 883 | 9.3 | 23958.1 | -2809.9 | 973 | 10.0 | 25409.3 | -2803.4 | 1063 | 10.0 | 30744.8 | -2800.9 |
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| 795 | 8.9 | 22529.1 | -2833.5 | 885 | 9.5 | 23952.3 | -2847.1 | 975 | 9.8 | 25428.0 | -2839.5 | 1065 | 10.0 | 30756.0 | -2832.5 |
| 796 | 10.0 | 22530.2 | -2848.8 | 886 | 10.0 | 24002.2 | -2842.1 | 976 | 9.5 | 25433.0 | -2805.4 | 1066 | 10.0 | 30759.6 | -2838.1 |
| 797 | 9.9 | 22547.3 | -2846.3 | 887 | 10.0 | 24019.2 | -2802.0 | 977 | 10.0 | 25445.7 | -2815.4 | 1067 | 6.8 | 30802.4 | -2802.3 |
| 798 | 10.0 | 22556.7 | -2831.5 | 888 | 10.0 | 24023.9 | -2824.9 | 978 | 8.0 | 25448.3 | -2835.1 | 1068 | 10.0 | 30811.3 | -2809.4 |
| 799 | 9.6 | 22600.1 | -2857.7 | 889 | 10.0 | 24026.7 | -2802.9 | 979 | 10.0 | 25457.6 | -2810.4 | 1069 | 10.0 | 30825.3 | -2801.9 |
| 800 | 7.2 | 22602.0 | -2803.8 | 890 | 10.0 | 24027.2 | -2801.9 | 980 | 10.0 | 25509.8 | -2818.9 | 1070 | 10.0 | 30832.3 | -2815.4 |
| 801 | 9.9 | 22631.7 | -2809.3 | 891 | 9.5 | 24035.4 | -2801.9 | 981 | 10.0 | 25519.7 | -2854.1 | 1071 | 10.0 | 30844.1 | -2854.9 |
| | | | | | | | | | | | | | | | |
| 802 | 10.0 | 22641.2 | -2856.3 | 892 | 9.1 | 24102.5 | -2822.5 | 982 | 7.5 | 25522.3 | -2807.9 | 1072 | 9.8 | 30940.0 | -2800.3 |
| 803 | 7.4 | 22643.0 | -2820.5 | 893 | 9.5 | 24122.8 | -2859.8 | 983 | 9.8 | 25533.6 | -2829.8 | 1073 | 10.0 | 30951.8 | -2847.1 |
| 804 | 9.9 | 22649.1 | -2841.3 | 894 | 9.9 | 24231.6 | -2807.4 | 984 | 10.0 | 25535.3 | -2804.9 | 1074 | 10.0 | 30954.7 | -2839.1 |
| 805 | 9.6 | 22651.5 | -2832.2 | 895 | 10.0 | 24233.0 | -2821.1 | 985 | 9.6 | 25547.0 | -2827.5 | 1075 | 7.5 | 30956.4 | -2849.1 |
| 806 | 9.0 | 22653.4 | -2809.3 | 896 | 9.3 | 24239.3 | -2831.5 | 986 | 7.5 | 25605.9 | -2855.8 | 1076 | 10.0 | 31007.1 | -2809.4 |
| 807 | 9.6 | 22654.7 | -2849.3 | 897 | 9.8 | 24252.1 | -2834.1 | 987 | 6.0 | 25614.7 | -2834.8 | 1077 | 8.6 | 31016.4 | -2828.5 |
| 808 | 10.0 | 22704.8 | -2834.5 | 898 | 9.3 | 24302.0 | -2803.9 | 988 | 9.4 | 25626.2 | -2832.8 | 1078 | 9.6 | 31025.1 | -2817.5 |
| 809 | 10.0 | 22707.0 | -2856.7 | 899 | 9.7 | 24302.6 | -2812.9 | 989 | 9.7 | 25642.3 | -2804.9 | 1079 | 9.9 | 31052.2 | -2833.1 |
| 810 | 9.9 | 22716.7 | -2809.8 | 900 | 10.0 | 24305.8 | -2822.9 | 990 | 8.7 | 25644.2 | -2829.1 | 10 | | | |

-28 1102 3h13m

| | | | | | |
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| 1105 10.0 | 31411.0 | -2806.9 | 1195 9.7 | 32926.4 | -2817.4 |
| 1106 9.9 | 31419.2 | -2849.6 | 1196 10.0 | 32928.2 | -2806.9 |
| 1107 9.7 | 31446.6 | -2812.4 | 1197 10.0 | 32945.6 | -2820.0 |
| 1108 9.7 | 31505.2 | -2836.5 | 1198 10.0 | 32947.3 | -2826.0 |
| 1109 10.0 | 31535.9 | -2812.0 | 1199 10.0 | 32948.8 | -2822.5 |
| 1110 10.0 | 31536.6 | -2851.1 | 1200 9.5 | 32954.1 | -2808.4 |
| 1111 9.9 | 31542.1 | -2822.8 | 1201 9.7 | 32955.2 | -2802.9 |
| 1112 9.9 | 31602.8 | -2857.3 | 1202 10.0 | 33001.6 | -2840.5 |
| 1113 10.0 | 31616.2 | -2851.6 | 1203 10.0 | 33002.4 | -2812.4 |
| 1114 10.0 | 31617.5 | -2849.1 | 1204 9.9 | 33004.8 | -2858.2 |
| 1115 9.0 | 31619.0 | -2836.8 | 1205 8.4 | 33011.1 | -2845.5 |
| 1116 9.7 | 31623.6 | -2832.5 | 1206 9.6 | 33027.4 | -2829.5 |
| 1117 9.3 | 31646.5 | -2821.7 | 1207 10.0 | 33048.0 | -2845.5 |
| 1118 9.8 | 31700.3 | -2817.4 | 1208 9.3 | 33050.2 | -2800.4 |
| 1119 9.1 | 31708.2 | -2852.1 | 1209 10.0 | 33100.9 | -2801.4 |
| 1120 9.8 | 31714.2 | -2806.1 | 1210 9.7 | 33102.1 | -2836.5 |
| 1121 10.0 | 31744.9 | -2840.1 | 1211 8.9 | 33111.8 | -2817.7 |
| 1122 9.9 | 31747.8 | -2812.7 | 1212 9.8 | 33133.4 | -2858.2 |
| 1123 9.5 | 31808.4 | -2821.5 | 1213 10.0 | 33137.4 | -2806.9 |
| 1124 10.0 | 31812.5 | -2857.6 | 1214 8.4 | 33147.0 | -2832.0 |
| 1125 9.7 | 31823.2 | -2827.5 | 1215 9.7 | 33148.5 | -2808.9 |
| 1126 7.5 | 31824.0 | -2822.5 | 1216 9.6 | 33148.6 | -2803.4 |
| 1127 10.0 | 31826.7 | -2821.9 | 1217 9.7 | 33151.0 | -2833.0 |
| 1128 9.7 | 31840.9 | -2834.1 | 1218 10.0 | 33156.4 | -2831.0 |
| 1129 10.0 | 31925.7 | -2817.1 | 1219 9.7 | 33203.6 | -2805.7 |
| 1130 9.9 | 31930.9 | -2820.2 | 1220 10.0 | 33228.0 | -2827.0 |
| 1131 9.6 | 31931.8 | -2820.5 | 1221 10.0 | 33240.9 | -2851.2 |
| 1132 9.7 | 31934.0 | -2807.7 | 1222 9.7 | 33251.8 | -2858.2 |
| 1133 8.6 | 31934.3 | -2812.7 | 1223 10.0 | 33254.1 | -2804.9 |
| 1134 9.6 | 31936.7 | -2832.8 | 1224 10.0 | 33227.4 | -2846.3 |
| 1135 10.0 | 31946.6 | -2842.6 | 1225 5.8 | 33335.8 | -2820.6 |
| 1136 9.3 | 32004.9 | -2819.2 | 1226 9.6 | 33337.1 | -2851.8 |
| 1137 10.0 | 32033.5 | -2850.1 | 1227 8.2 | 33352.2 | -2825.8 |
| 1138 10.0 | 32038.3 | -2846.6 | 1228 9.0 | 33402.2 | -2805.3 |
| 1139 10.0 | 32041.7 | -2826.9 | 1229 10.0 | 33404.8 | -2819.4 |
| 1140 9.4 | 32042.7 | -2847.6 | 1230 9.5 | 33407.8 | -2828.1 |
| 1141 9.8 | 32058.3 | -2800.6 | 1231 10.0 | 33415.9 | -2835.8 |
| 1142 9.9 | 32106.8 | -2809.8 | 1232 9.7 | 33423.4 | -2845.4 |
| 1143 9.6 | 32110.4 | -2820.2 | 1233 10.0 | 33441.1 | -2833.3 |
| 1144 9.7 | 32111.4 | -2849.6 | 1234 10.0 | 33442.9 | -2846.3 |
| 1145 10.0 | 32121.8 | -2859.6 | 1235 7.1 | 33444.4 | -2854.8 |
| 1146 10.0 | 32142.5 | -2810.5 | 1236 9.9 | 33511.7 | -2809.6 |
| 1147 10.0 | 32146.2 | -2835.6 | 1237 10.0 | 33519.5 | -2852.2 |
| 1148 9.7 | 32152.6 | -2851.6 | 1238 10.0 | 33522.4 | -2837.2 |
| 1149 8.2 | 32212.0 | -2811.0 | 1239 10.0 | 33528.9 | -2858.9 |
| 1150 10.0 | 32212.5 | -2848.6 | 1240 10.0 | 33530.4 | -2800.1 |
| 1151 10.0 | 32223.8 | -2836.2 | 1241 7.3 | 33538.3 | -2821.7 |
| 1152 9.7 | 32229.2 | -2839.6 | 1242 10.0 | 33555.1 | -2835.2 |
| 1153 10.0 | 32236.4 | -2858.0 | 1243 9.5 | 33601.8 | -2819.2 |
| 1154 9.4 | 32238.7 | -2816.5 | 1244 9.3 | 33608.8 | -2818.9 |
| 1155 9.9 | 32240.4 | -2803.0 | 1245 9.8 | 33613.6 | -2807.6 |
| 1156 9.6 | 32241.7 | -2843.6 | 1246 10.0 | 33615.2 | -2820.7 |
| 1157 10.0 | 32238.8 | -2800.4 | 1247 9.5 | 33615.4 | -2821.7 |
| 1158 9.3 | 32330.7 | -2804.0 | 1248 9.3 | 33623.7 | -2840.2 |
| 1159 10.0 | 32337.9 | -2855.6 | 1249 9.4 | 33627.0 | -2816.1 |
| 1160 9.7 | 32403.1 | -2818.5 | 1250 9.7 | 33636.8 | -2812.1 |
| 1161 9.7 | 32414.8 | -2843.6 | 1251 10.0 | 33637.4 | -2853.7 |
| 1162 9.2 | 32421.6 | -2849.6 | 1252 10.0 | 33701.0 | -2852.2 |
| 1163 10.0 | 32422.7 | -2825.6 | 1253 9.7 | 33704.2 | -2859.9 |
| 1164 8.6 | 32425.6 | -2855.6 | 1254 9.7 | 33708.0 | -2826.2 |
| 1165 9.5 | 32443.7 | -2846.6 | 1255 9.0 | 33711.5 | -2848.2 |
| 1166 9.9 | 32445.8 | -2847.6 | 1256 10.0 | 33720.7 | -2812.1 |
| 1167 9.9 | 32452.8 | -2827.1 | 1257 8.9 | 33801.3 | -2832.2 |
| 1168 9.7 | 32455.0 | -2849.6 | 1258 10.0 | 33806.8 | -2813.6 |
| 1169 10.0 | 32523.1 | -2857.1 | 1259 10.0 | 33807.9 | -2812.6 |
| 1170 10.0 | 32524.7 | -2839.1 | 1260 9.4 | 33817.2 | -2851.7 |
| 1171 7.1 | 32526.0 | -2821.6 | 1261 9.7 | 33848.4 | -2821.2 |
| 1172 10.0 | 32552.7 | -2849.6 | 1262 10.0 | 33853.5 | -2858.3 |
| 1173 10.0 | 32601.6 | -2825.6 | 1263 9.6 | 33902.6 | -2807.1 |
| 1174 9.5 | 32607.7 | -2818.5 | 1264 9.5 | 33910.1 | -2850.7 |
| 1175 10.0 | 32611.2 | -2820.5 | 1265 9.8 | 33923.5 | -2819.5 |
| 1176 8.9 | 32615.5 | -2805.5 | 1266 10.0 | 33930.2 | -2801.6 |
| 1177 10.0 | 32616.7 | -2804.5 | 1267 10.0 | 33937.8 | -2816.1 |
| 1178 9.5 | 32641.5 | -2833.7 | 1268 9.9 | 33944.8 | -2802.1 |
| 1179 10.0 | 32644.3 | -2842.1 | 1269 9.5 | 33947.0 | -2819.2 |
| 1180 9.6 | 32709.4 | -2823.5 | 1270 9.0 | 33952.1 | -2813.1 |
| 1181 10.0 | 32711.5 | -2849.5 | 1271 8.0 | 33953.1 | -2800.1 |
| 1182 10.0 | 32715.6 | -2803.5 | 1272 9.9 | 33953.9 | -2827.2 |
| 1183 10.0 | 32720.6 | -2849.5 | 1273 9.6 | 33956.7 | -2837.2 |
| 1184 9.6 | 32727.1 | -2832.5 | 1274 8.5 | 33958.3 | -2809.6 |
| 1185 9.9 | 32735.7 | -2829.8 | 1275 10.0 | 33959.7 | -2829.2 |
| 1186 10.0 | 32748.9 | -2829.5 | 1276 7.8 | 34011.4 | -2816.1 |
| 1187 10.0 | 32755.8 | -2847.6 | 1277 9.7 | 34017.3 | -2810.6 |
| 1188 9.3 | 32758.9 | -2800.1 | 1278 9.7 | 34024.2 | -2817.1 |
| 1189 9.0 | 32818.0 | -2818.8 | 1279 10.0 | 34030.4 | -2852.0 |
| 1190 10.0 | 32837.6 | -2848.0 | 1280 9.5 | 34036.0 | -2819.8 |
| 1191 9.4 | 32850.2 | -2830.5 | 1281 9.0 | 34131.6 | -2834.7 |

-28 1461 4h08m

| | | | | | |
|-----------|---------|---------|-----------|---------|---------|
| 1282 9.6 | 34133.1 | -2841.2 | 1372 8.8 | 35631.4 | -2804.5 |
| 1283 10.0 | 34135.6 | -2816.1 | 1373 10.0 | 35632.5 | -2857.1 |
| 1284 9.7 | 34139.5 | -2818.2 | 1374 9.6 | 35654.7 | -2824.8 |
| 1285 10.0 | 34208.8 | -2838.6 | 1375 10.0 | 35656.6 | -2845.8 |
| 1286 10.0 | 34212.2 | -2849.1 | 1376 10.0 | 35658.2 | -2840.8 |
| 1287 10.0 | 34218.8 | -2837.6 | 1377 9.4 | 35702.8 | -2827.3 |
| 1288 9.7 | 34254.6 | -2802.5 | 1378 9.5 | 35715.2 | -2808.0 |
| 1289 8.0 | 34335.3 | -2851.0 | 1379 7.4 | 35717.4 | -2852.4 |
| 1290 10.0 | 34346.1 | -2829.1 | 1380 9.8 | 35723.3 | -2818.6 |
| 1291 10.0 | 34348.2 | -2828.1 | 1381 10.0 | 35729.3 | -2856.8 |
| 1292 10.0 | 34408.4 | -2809.6 | 1382 10.0 | 35753.2 | -2836.3 |
| 1293 9.6 | 34423.1 | -2820.1 | 1383 9.5 | 35754.5 | -2804.5 |
| 1294 10.0 | 34426.1 | -2800.1 | 1384 10.0 | 35756.5 | -2828.3 |
| 1295 10.0 | 34429.9 | -2849.1 | 1385 9.1 | 35758.9 | -2817.9 |
| 1296 10.0 | 34437.5 | -2814.6 | 1386 10.0 | 35839.4 | -2837.8 |
| 1297 10.0 | 34439.0 | -2839.6 | 1387 9.5 | 35839.5 | -2841.8 |
| 1298 9.8 | 34440.5 | -2819.5 | 1388 10.0 | 35915.3 | -2806.5 |
| 1299 9.9 | 34443.1 | -2845.1 | 1389 10.0 | 35926.7 | -2811.0 |
| 1300 10.0 | 34456.0 | -2849.1 | 1390 9.0 | 35938.0 | -2805.0 |
| 1301 9.2 | 34458.8 | -2858.0 | 1391 9.6 | 35940.2 | -2855.8 |
| 1302 10.0 | 34509.4 | -2834.6 | 1392 8.2 | 35940.4 | -2841.3 |
| 1303 10.0 | 34516.6 | -2814.1 | 1393 9.6 | 35954.2 | -2849.8 |
| 1304 9.5 | 34518.5 | -2850.1 | 1394 10.0 | 35959.8 | -2855.3 |
| 1305 10.0 | 34520.4 | -2838.6 | 1395 10.0 | 40005.8 | -2835.3 |
| 1306 10.0 | 34537.5 | -2842.1 | 1396 9.4 | 40012.9 | -2840.8 |
| 1307 9.6 | 34546.4 | -2830.1 | 1397 9.9 | 40025.2 | -2826.8 |
| 1308 9.5 | 34601.9 | -2845.1 | 1398 9.7 | 40027.0 | -2848.3 |
| 1309 9.4 | 34614.1 | -2853.6 | 1399 9.9 | 40039.1 | -2830.8 |
| 1310 10.0 | 34635.5 | -2800.6 | 1400 9.9 | 40042.8 | -2831.8 |
| 1311 9.9 | 34650.2 | -2811.1 | 1401 9.1 | 40048.4 | -2816.0 |
| 1312 9.1 | 34656.9 | -2827.1 | 1402 9.6 | 40056.4 | -2817.0 |
| 1313 10.0 | 34721.0 | -2821.0 | 1403 9.3 | 40123.5 | -2808.5 |
| 1314 9.7 | 34727.0 | -2832.6 | 1404 10.0 | 40126.1 | -2825.8 |
| 1315 9.2 | 34735.3 | -2853.6 | 1405 9.2 | 40129.6 | -2852.4 |
| 1316 10.0 | 34749.9 | -2807.6 | 1406 9.2 | 40130.2 | -2800.4 |
| 1317 9.8 | 34755.6 | -2856.6 | 1407 10.0 | 40137.8 | -2851.0 |
| 1318 10.0 | 34759.9 | -2827.0 | 1408 10.0 | 40151.7 | -2816.9 |
| 1319 10.0 | 34805.1 | -2833.5 | 1409 10.0 | 40201.5 | -2806.5 |
| 1320 10.0 | 34807.6 | -2823.1 | 1410 9.3 | 40211.8 | -2819.6 |
| 1321 9.3 | 34814.0 | -2855.2 | 1411 9.9 | 40212.7 | -2857.3 |
| 1322 9.0 | 34831.4 | -2840.0 | 1412 10.0 | 40220.3 | -2811.4 |
| 1323 9.5 | 34835.8 | -2838.0 | 1413 10.0 | 40224.9 | -2848.1 |
| 1324 9.9 | 34852.8 | -2816.5 | 1414 9.2 | 40225.5 | -2801.6 |
| 1325 9.7 | 34854.6 | -2813.5 | 1415 9.0 | 40300.9 | -2850.6 |
| 1326 7.1 | 34908.3 | -2802.0 | 1416 9.4 | 40317.5 | -2803.9 |
| 1327 9.6 | 34919.0 | -2843.9 | 1417 10.0 | 40332.4 | -2827.6 |
| 1328 10.0 | 34949.3 | -2838.9 | 1418 10.0 | 40339.1 | -2836.6 |
| 1329 9.6 | 34956.8 | -2848.9 | 1419 10.0 | 40407.7 | -2847.1 |
| 1330 9.0 | 35007.5 | -2806.0 | 1420 10.0 | 40409.2 | -2858.6 |
| 1331 9.9 | 35015.0 | -2853.8 | 1421 10.0 | 40412.6 | -2818.8 |
| 1332 9.6 | 35017.0 | -2808.0 | 1422 10.0 | 40413.6 | -2818.9 |
| 1333 9.6 | 35024.6 | -2845.9 | 1423 8.4 | 40417.1 | -2807.9 |
| 1334 10.0 | 35035.5 | -2859.5 | 1424 9.7 | 40424.8 | -2802.9 |
| 1335 10.0 | 35039.7 | -2847.9 | 1425 9.4 | 40427.2 | -2808.4 |
| 1336 10.0 | 35048.0 | -2855.4 | 1426 10.0 | 40430.5 | -2809.4 |
| 1337 10.0 | 35050.9 | -2809.5 | 1427 10.0 | 40433.3 | -2839.6 |
| 1338 9.9 | 35054.6 | -2848.9 | 1428 10.0 | 40442.1 | -2851.1 |
| 1339 9.0 | 35059.6 | -2838.4 | 1429 9.8 | 40455.6 | -2855.6 |
| 1340 9.6 | 35106.8 | -2845.5 | 1430 9.5 | 40503.4 | -2818.1 |
| 1341 10.0 | 35108.3 | -2803.0 | 1431 9.0 | 40506.3 | -2847.6 |
| 1342 9.4 | 35110.8 | -2847.0 | 1432 10.0 | 40507.3 | -2858.6 |
| 1343 8.9 | 35116.8 | -2820.9 | 1433 10.0 | 40508.9 | -2859.6 |
| 1344 10.0 | 35129.1 | -2816.0 | 1434 9.9 | 40524.6 | -2837.6 |
| 1345 9.7 | 35136.5 | -2828.9 | 1435 10.0 | 40527.7 | -2856.6 |
| 1346 10.0 | 35138.3 | -2806.0 | 1436 10.0 | 40535.8 | -2801.9 |
| 1347 10.0 | 35145.7 | -2813.5 | 1437 10.0 | 40550.9 | -2859.6 |
| 1348 10.0 | 35151.7 | -2819.4 | 1438 10.0 | 40555.3 | -2834.6 |
| 1349 9.5 | 35204.0 | -2842.9 | 1439 9.7 | 40558.4 | -2849.6 |
| 1350 10.0 | 35215.8 | -2800.6 | 1440 10.0 | 40603.8 | -2832.6 |
| | | | | | |

-28 1462 4h09m

1462 10.0 40906.1 -2839.5
1463 10.0 40907.2 -2813.4
1464 10.0 40911.7 -2826.5
1465 9.3 40913.0 -2800.3
1466 9.0 40914.5 -2838.5
1467 9.8 40947.0 -2822.0
1468 10.0 41002.8 -2858.5
1469 9.4 41006.0 -2827.5
1470 9.9 41013.9 -2835.0
1471 10.0 41017.8 -2800.6

1472 9.9 41019.1 -2853.9
1473 10.0 41030.0 -2841.6
1474 8.8 41033.1 -2842.5
1475 10.0 41125.2 -2858.5
1476 8.9 41128.2 -2844.5
1477 10.0 41131.7 -2828.5
1478 10.0 41135.5 -2858.5
1479 10.0 41139.4 -2854.0
1480 9.7 41212.3 -2830.5
1481 9.9 41231.2 -2825.5

1482 10.0 41235.5 -2819.0
1483 9.0 41255.4 -2845.5
1484 9.7 41316.2 -2802.4
1485 8.8 41334.3 -2828.5
1486 9.7 41337.0 -2833.0
1487 9.9 41340.1 -2839.0
1488 10.0 41342.2 -2826.5
1489 9.4 41346.1 -2822.5
1490 9.6 41352.7 -2821.0
1491 9.1 41409.6 -2817.4

1492 9.7 41413.1 -2807.9
1493 9.9 41423.3 -2854.8
1494 10.0 41425.5 -2829.9
1495 9.3 41430.7 -2849.8
1496 10.0 41441.5 -2825.4
1497 10.0 41445.6 -2816.4
1498 10.0 41447.6 -2836.9
1499 9.8 41523.2 -2856.1
1500 10.0 41525.4 -2847.3
1501 9.4 41527.4 -2800.8

1502 10.0 41527.5 -2810.8
1503 9.6 41532.4 -2825.8
1504 9.1 41613.3 -2813.3
1505 9.9 41616.7 -2836.3
1506 9.7 41624.0 -2817.3
1507 10.0 41626.1 -2812.3
1508 9.9 41634.6 -2842.8
1509 9.9 41636.4 -2845.3
1510 10.0 41636.9 -2859.4
1511 9.9 41639.4 -2819.3

1512 9.5 41641.4 -2820.8
1513 9.1 41644.6 -2809.8
1514 10.0 41646.4 -2847.8
1515 9.6 41649.3 -2820.3
1516 10.0 41655.1 -2808.3
1517 9.7 41716.2 -2838.3
1518 9.4 41720.0 -2829.8
1519 10.0 41723.3 -2852.8
1520 9.5 41726.5 -2828.3
1521 9.7 41729.6 -2808.3

1522 9.1 41748.7 -2809.8
1523 8.4 41804.7 -2831.3
1524 10.0 41808.3 -2817.8
1525 10.0 41814.2 -2852.1
1526 10.0 41835.8 -2859.4
1527 8.0 41837.7 -2807.6
1528 9.6 41844.3 -2855.8
1529 10.0 41851.5 -2827.8
1530 10.0 41913.3 -2834.3
1531 10.0 41921.2 -2810.3

1532 10.0 41923.4 -2816.3
1533 9.7 41930.4 -2817.6
1534 10.0 41931.6 -2858.9
1535 9.6 41946.0 -2844.3
1536 7.7 41949.5 -2829.3
1537 10.0 41957.2 -2818.8
1538 9.6 42018.4 -2812.3
1539 10.0 42020.4 -2822.3
1540 9.6 42024.5 -2800.8
1541 9.0 42027.7 -2806.8

1542 9.4 42029.5 -2810.8
1543 8.2 42032.9 -2846.3
1544 9.3 42107.5 -2801.7
1545 9.7 42112.6 -2800.1
1546 10.0 42123.3 -2811.2
1547 10.0 42133.0 -2844.2
1548 8.9 42136.6 -2857.3
1549 10.0 42148.2 -2836.4
1550 9.1 42150.4 -2829.7
1551 10.0 42200.0 -2807.2

1552 8.8 42201.1 -2857.3
1553 9.6 42204.9 -2852.7
1554 9.0 42220.6 -2812.7
1555 9.1 42225.5 -2819.1
1556 10.0 42228.3 -2826.2
1557 10.0 42233.6 -2848.2
1558 10.0 42240.2 -2857.0
1559 10.0 42317.2 -2820.2
1560 10.0 42318.8 -2851.0
1561 10.0 42323.6 -2819.7

1562 10.0 42332.1 -2846.2
1563 10.0 42334.8 -2848.2
1564 9.9 42341.9 -2825.2
1565 9.4 42415.0 -2817.5
1566 9.6 42420.4 -2850.2
1567 8.4 42433.5 -2838.6
1568 9.5 42452.4 -2845.5
1569 8.9 42453.4 -2841.6
1570 9.6 42502.0 -2829.6
1571 10.0 42511.6 -2807.2

1572 9.1 42515.2 -2800.7
1573 9.9 42521.0 -2823.3
1574 10.0 42526.5 -2822.6
1575 9.4 42530.8 -2844.9
1576 10.0 42608.3 -2835.0
1577 9.5 42610.5 -2851.4
1578 8.4 42613.0 -2806.6
1579 9.6 42619.9 -2808.2
1580 9.8 42622.4 -2855.7
1581 9.4 42625.6 -2852.4

1582 9.8 42626.8 -2807.2
1583 10.0 42626.9 -2842.0
1584 10.0 42633.0 -2803.2
1585 9.1 42712.2 -2822.0
1586 10.0 42714.0 -2814.9
1587 10.0 42714.7 -2821.3
1588 9.5 42718.5 -2853.0
1589 10.0 42724.6 -2834.4
1590 9.5 42732.0 -2829.0
1591 9.9 42740.4 -2822.7

1592 9.8 42745.6 -2829.3
1593 8.9 42749.6 -2844.7
1594 8.8 42750.2 -2853.7
1595 9.4 42755.3 -2847.3
1596 10.0 42757.6 -2855.4
1597 10.0 42816.1 -2807.4
1598 9.6 42834.4 -2856.0
1599 9.2 42837.6 -2805.0
1600 10.0 42838.1 -2848.9
1601 10.0 42838.5 -2829.3

1602 9.8 42841.0 -2856.7
1603 9.5 42843.0 -2839.0
1604 10.0 42851.0 -2807.2
1605 10.0 42851.7 -2809.4
1606 10.0 42853.7 -2857.5
1607 9.9 42857.6 -2845.0
1608 6.9 42902.8 -2842.7
1609 9.6 42905.8 -2838.3
1610 10.0 42915.4 -2810.7
1611 9.7 42923.3 -2831.7

1612 8.7 42929.6 -2825.0
1613 9.0 42936.2 -2827.7
1614 10.0 42943.8 -2848.3
1615 10.0 42947.5 -2807.7
1616 9.7 42948.5 -2844.0
1617 9.7 42951.0 -2820.3
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| 3654 9.3 | 65307.3 | -2837.7 | 3744 7.7 | 65722.1 | -2805.8 | 3834 9.7 | 70056.3 | -2812.2 | 3924 9.6 | 70433.3 | -2856.6 |
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-28 3982 7h06m

| | | | | | |
|-----------|---------|---------|-----------|---------|---------|
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| 4044 8.7 | 70928.6 | -2837.8 | 4134 10.0 | 71259.0 | -2834.2 |
| 4045 9.4 | 70929.7 | -2850.4 | 4135 9.5 | 71300.5 | -2838.2 |
| 4046 9.6 | 70931.7 | -2851.3 | 4136 10.0 | 71302.6 | -2822.4 |
| 4047 9.2 | 70933.3 | -2846.6 | 4137 9.2 | 71302.6 | -2829.7 |
| 4048 10.0 | 70939.1 | -2825.8 | 4138 9.0 | 71303.7 | -2824.9 |
| 4049 9.1 | 70941.7 | -2846.9 | 4139 10.0 | 71305.9 | -2805.0 |
| 4050 10.0 | 70941.9 | -2801.1 | 4140 9.2 | 71307.3 | -2815.8 |
| 4051 9.5 | 70942.3 | -2840.8 | 4141 10.0 | 71309.4 | -2816.8 |
| 4052 9.5 | 70944.5 | -2842.8 | 4142 8.9 | 71310.1 | -2843.2 |
| 4053 9.7 | 70946.5 | -2841.8 | 4143 9.5 | 71313.4 | -2844.7 |
| 4054 10.0 | 70949.3 | -2822.5 | 4144 10.0 | 71314.9 | -2819.4 |
| 4055 9.7 | 70955.0 | -2802.7 | 4145 10.0 | 71315.4 | -2819.9 |
| 4056 10.0 | 70956.7 | -2853.5 | 4146 10.0 | 71318.9 | -2848.0 |
| 4057 7.6 | 70958.5 | -2844.9 | 4147 10.0 | 71319.7 | -2827.2 |
| 4058 10.0 | 70959.4 | -2806.0 | 4148 9.3 | 71338.8 | -2855.2 |
| 4059 9.2 | 71001.3 | -2805.0 | 4149 9.7 | 71339.3 | -2825.2 |
| 4060 9.7 | 71001.6 | -2851.6 | 4150 10.0 | 71340.8 | -2814.5 |
| 4061 10.0 | 71002.1 | -2859.8 | 4151 9.6 | 71343.1 | -2837.2 |
| 4062 9.9 | 71005.6 | -2847.9 | 4152 10.0 | 71343.3 | -2836.2 |
| 4063 10.0 | 71007.4 | -2833.8 | 4153 10.0 | 71344.0 | -2855.1 |
| 4064 10.0 | 71009.5 | -2819.8 | 4154 8.7 | 71348.1 | -2846.5 |
| 4065 10.0 | 71018.4 | -2852.1 | 4155 9.8 | 71348.6 | -2822.7 |
| 4066 9.0 | 71018.4 | -2828.3 | 4156 9.7 | 71349.6 | -2810.7 |
| 4067 7.9 | 71020.6 | -2808.7 | 4157 9.7 | 71354.4 | -2850.6 |
| 4068 9.7 | 71025.0 | -2804.7 | 4158 10.0 | 71403.1 | -2804.3 |
| 4069 10.0 | 71026.3 | -2814.4 | 4159 9.4 | 71403.5 | -2852.7 |
| 4070 9.0 | 71026.8 | -2816.8 | 4160 10.0 | 71414.1 | -2831.4 |
| 4071 9.6 | 71027.8 | -2846.3 | 4161 7.5 | 71414.2 | -2846.8 |

-28 4341 7h21m

| | | | | | |
|-----------|---------|---------|-----------|---------|---------|
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| 4164 10.0 | 71419.0 | -2859.3 | 4254 10.0 | 71751.5 | -2808.8 |
| 4165 9.7 | 71420.3 | -2844.7 | 4255 9.7 | 71752.4 | -2827.3 |
| 4166 10.0 | 71422.2 | -2818.4 | 4256 10.0 | 71753.1 | -2802.3 |
| 4167 9.7 | 71429.7 | -2854.5 | 4257 10.0 | 71756.7 | -2821.0 |
| 4168 10.0 | 71434.9 | -2811.3 | 4258 9.9 | 71757.7 | -2833.8 |
| 4169 10.0 | 71436.8 | -2810.3 | 4259 9.1 | 71757.7 | -2850.2 |
| 4170 10.0 | 71439.0 | -2814.2 | 4260 10.0 | 71800.0 | -2810.3 |
| 4171 9.0 | 71443.1 | -2826.2 | 4261 9.0 | 71807.8 | -2820.4 |
| 4172 9.4 | 71445.4 | -2817.0 | 4262 10.0 | 71811.5 | -2810.8 |
| 4173 9.9 | 71445.8 | -2853.0 | 4263 8.9 | 71811.8 | -2848.2 |
| 4174 10.0 | 71447.3 | -2825.2 | 4264 10.0 | 71812.2 | -2804.0 |
| 4175 10.0 | 71448.3 | -2820.4 | 4265 10.0 | 71813.0 | -2802.8 |
| 4176 10.0 | 71449.3 | -2819.0 | 4266 10.0 | 71814.4 | -2851.4 |
| 4177 9.9 | 71455.0 | -2814.4 | 4267 9.2 | 71815.2 | -2843.3 |
| 4178 8.7 | 71455.2 | -2846.8 | 4268 9.6 | 71818.8 | -2820.4 |
| 4179 8.8 | 71500.6 | -2816.3 | 4269 10.0 | 71821.1 | -2825.3 |
| 4180 10.0 | 71505.9 | -2855.2 | 4270 9.0 | 71822.2 | -2836.3 |
| 4181 10.0 | 71507.2 | -2810.0 | 4271 9.8 | 71824.3 | -2841.3 |
| 4182 10.0 | 71508.6 | -2858.3 | 4272 9.5 | 71828.5 | -2820.4 |
| 4183 9.6 | 71508.9 | -2845.2 | 4273 10.0 | 71831.0 | -2823.4 |
| 4184 8.8 | 71510.4 | -2846.2 | 4274 8.9 | 71834.9 | -2827.3 |
| 4185 10.0 | 71510.9 | -2837.0 | 4275 9.9 | 71838.2 | -2841.0 |
| 4186 10.0 | 71512.2 | -2822.0 | 4276 10.0 | 71842.4 | -2840.0 |
| 4187 9.7 | 71514.2 | -2824.7 | 4277 8.1 | 71843.9 | -2810.6 |
| 4188 10.0 | 71514.2 | -2814.8 | 4278 9.7 | 71844.4 | -2847.2 |
| 4189 10.0 | 71517.4 | -2842.0 | 4279 9.2 | 71848.4 | -2811.6 |
| 4190 9.3 | 71517.8 | -2833.7 | 4280 9.2 | 71853.2 | -2820.0 |
| 4191 10.0 | 71519.6 | -2833.2 | 4281 10.0 | 71857.4 | -2857.3 |
| 4192 10.0 | 71522.4 | -2853.7 | 4282 9.5 | 71857.4 | -2842.3 |
| 4193 10.0 | 71524.3 | -2843.6 | 4283 9.6 | 71858.6 | -2850.8 |
| 4194 10.0 | 71526.0 | -2856.8 | 4284 10.0 | 71900.2 | -2828.3 |
| 4195 9.4 | 71526.8 | -2845.8 | 4285 10.0 | 71908.5 | -2810.7 |
| 4196 9.6 | 71527.0 | -2812.0 | 4286 7.6 | 71910.3 | -2834.8 |
| 4197 9.8 | 71535.2 | -2802.3 | 4287 9.9 | 71913.8 | -2819.2 |
| 4198 9.4 | 71542.3 | -2831.1 | 4288 10.0 | 71914.8 | -2830.8 |
| 4199 9.5 | 71544.7 | -2843.6 | 4289 9.7 | 71915.2 | -2820.0 |
| 4200 9.5 | 71545.9 | -2803.6 | 4290 9.3 | 71918.0 | -2806.2 |
| 4201 10.0 | 71554.7 | -2844.1 | 4291 9.7 | 71919.6 | -2851.8 |
| 4202 9.9 | 71557.0 | -2810.3 | 4292 9.9 | 71920.9 | -2849.5 |
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| 4204 8.7 | 71557.6 | -2827.1 | 4294 10.0 | 71928.0 | -2821.0 |
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| 4207 10.0 | 71602.4 | -2853.0 | 4297 10.0 | 71935.3 | -2827.8 |
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| 4209 8.5 | 71608.4 | -2823.9 | 4299 10.0 | 71938.6 | -2833.3 |
| 4210 10.0 | 71609.2 | -2836.1 | 4300 9.9 | 71938.7 | -2815.6 |
| 4211 10.0 | 71610.0 | -2827.6 | 4301 10.0 | 71940.5 | -2841.8 |
| 4212 9.2 | 71612.6 | -2839.6 | 4302 9.6 | 71944.5 | -2846.0 |
| 4213 9.9 | 71617.0 | -2803.0 | 4303 10.0 | 71945.0 | -2801.2 |
| 4214 9.9 | 71620.5 | -2846.9 | 4304 9.4 | 71945.9 | -2854.3 |
| 4215 10.0 | 71621.8 | -2806.0 | 4305 10.0 | 71954.7 | -2807.7 |
| 4216 9.9 | 71623.4 | -2834.2 | 4306 10.0 | 71955.7 | -2831.3 |
| 4217 9.8 | 71627.4 | -2814.1 | 4307 9.8 | 71957.9 | -2814.6 |
| 4218 8.6 | 71627.4 | -2831.2 | 4308 9.8 | 72005.2 | -2805.2 |
| 4219 10.0 | 71630.2 | -2823.2 | 4309 9.5 | 72006.2 | -2834.8 |
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| 4225 10.0 | 71644.0 | -2852.3 | 4315 10.0 | 72021.6 | -2828.8 |
| 4226 8.4 | 71648.9 | -2825.8 | 4316 9.3 | 72023.6 | -2849.8 |
| 4227 10.0 | 71650.9 | -2819.4 | 4317 9.9 | 72025.1 | -2852.8 |
| 4228 10.0 | 71653.5 | -2830.3 | 4318 10.0 | 72029.1 | -2801.2 |
| 4229 9.7 | 71657.6 | -2849.3 | 4319 9.7 | 72031.8 | -2832.3 |
| 4230 9.7 | 71659.8 | -2857.3 | 4320 9.9 | 72033.3 | -2838.8 |
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-28 4342 7h21m

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4343 10.0 72129.3 -2812.9
4344 9.4 72130.6 -2821.4
4345 9.6 72133.8 -2850.2
4346 9.8 72136.4 -2807.3
4347 9.4 72138.4 -2852.7
4348 10.0 72140.1 -2811.7
4349 10.0 72141.5 -2852.1
4350 8.6 72142.6 -2834.8
4351 9.4 72143.1 -2810.2

4352 10.0 72145.4 -2819.1
4353 10.0 72148.4 -2838.3
4354 9.9 72156.4 -2814.6
4355 10.0 72200.8 -2844.8
4356 9.9 72207.9 -2804.2
4357 10.0 72208.6 -2847.8
4358 9.9 72211.2 -2854.6
4359 9.0 72214.9 -2811.2
4360 10.0 72215.6 -2825.8
4361 9.9 72216.7 -2841.8

4362 9.0 72218.0 -2801.2
4363 10.0 72219.6 -2812.7
4364 10.0 72221.5 -2850.4
4365 9.9 72222.8 -2839.2
4366 9.3 72224.0 -2832.2
4367 8.9 72227.3 -2802.7
4368 9.4 72228.1 -2835.5
4369 9.9 72229.6 -2829.3
4370 9.3 72230.1 -2828.2
4371 10.0 72232.8 -2820.6

4372 9.9 72233.4 -2834.9
4373 9.9 72236.6 -2846.2
4374 8.7 72239.5 -2805.7
4375 9.7 72242.3 -2824.8
4376 9.7 72245.6 -2831.5
4377 10.0 72247.1 -2841.6
4378 7.3 72248.7 -2807.2
4379 9.9 72251.2 -2842.5
4380 10.0 72256.7 -2816.1
4381 8.2 72300.0 -2813.1

4382 9.5 72301.3 -2809.7
4383 6.3 72302.3 -2854.3
4384 9.6 72305.9 -2813.8
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4388 9.6 72321.3 -2810.7
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4391 8.4 72326.0 -2849.4

4392 8.6 72331.5 -2825.2
4393 9.5 72332.7 -2829.2
4394 9.7 72333.9 -2811.7
4395 9.3 72334.8 -2830.2
4396 9.9 72335.9 -2839.3
4397 9.9 72336.0 -2800.2
4398 10.0 72337.6 -2813.3
4399 9.9 72340.6 -2812.7
4400 10.0 72340.9 -2841.3
4401 10.0 72341.0 -2813.7

4402 7.1 72343.2 -2851.6
4403 9.7 72343.4 -2848.8
4404 9.7 72345.5 -2836.1
4405 9.7 72345.8 -2819.1
4406 9.5 72351.9 -2837.1
4407 10.0 72357.2 -2842.1
4408 9.8 72400.0 -2847.1
4409 9.4 72400.2 -2818.8
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4412 9.9 72405.5 -2852.0
4413 9.6 72406.4 -2822.4
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4417 10.0 72422.0 -2814.2
4418 9.0 72424.5 -2801.2
4419 9.6 72425.9 -2805.2
4420 9.1 72427.9 -2814.5
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4423 10.0 72446.2 -2829.7
4424 9.7 72452.1 -2846.7
4425 10.0 72453.6 -2816.1
4426 10.0 72455.5 -2859.2
4427 10.0 72456.6 -2829.7
4428 8.6 72457.9 -2839.7
4429 9.9 72500.7 -2855.6
4430 9.7 72503.1 -2825.2
4431 9.7 72503.1 -2820.2

4432 9.9 72504.4 -2856.6
4433 10.0 72506.0 -2855.7
4434 9.2 72508.6 -2821.3
4435 8.8 72510.5 -2800.2
4436 10.0 72512.2 -2807.2
4437 10.0 72515.0 -2858.7
4438 8.6 72515.7 -2823.7
4439 9.9 72520.7 -2821.3
4440 9.3 72521.0 -2812.7
4441 9.7 72522.4 -2856.5

4442 9.9 72523.2 -2854.5
4443 8.4 72523.5 -2804.7
4444 9.4 72524.4 -2815.8
4445 8.3 72526.9 -2835.2
4446 9.6 72527.2 -2814.1
4447 8.5 72530.8 -2834.2
4448 10.0 72535.5 -2802.6
4449 9.8 72536.8 -2839.7
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4452 10.0 72543.8 -2832.2
4453 9.5 72546.6 -2846.2
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4455 10.0 72551.2 -2833.3
4456 9.6 72604.7 -2823.2
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4458 9.9 72609.2 -2809.1
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4469 9.6 72627.0 -2835.2
4470 9.4 72634.3 -2817.2
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4517 9.6 72826.7 -2848.1
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4520 10.0 72849.2 -2838.2
4521 10.0 72852.5 -2854.1

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4523 10.0 72853.7 -2850.8
4524 9.7 72856.6 -2828.2
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4527 10.0 72905.4 -2811.1
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4529 10.0 72907.0 -2810.1
4530 9.7 72907.5 -2825.7
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4538 9.7 72926.6 -2834.2
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4564 10.0 73014.1 -2841.2
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-28 4701 7h36m

-28 4702 7h36m

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-28 5061 7h49m

-28 5062 7h49m

-28 5421 8h00m

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-28 5422 8h00m

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-28 6501 8h40m

-28 6502 8h40m

-28 6861 8h57m

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-28 7221 9h19m

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-2810101 13h22m

| | | | | | | | | | | | | | | | |
|-------|------|----------|---------|-------|------|----------|---------|-------|------|----------|---------|-------|------|----------|---------|
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| 10103 | 9.5 | 132313.7 | -2820.9 | 10193 | 9.6 | 133253.0 | -2849.9 | 10283 | 10.0 | 134406.8 | -2849.2 | 10373 | 9.8 | 135348.7 | -2826.9 |
| 10104 | 8.8 | 132318.0 | -2809.4 | 10194 | 9.9 | 133309.8 | -2834.8 | 10284 | 9.9 | 134408.8 | -2845.9 | 10374 | 10.0 | 135349.5 | -2809.1 |
| 10105 | 9.8 | 132325.3 | -2818.6 | 10195 | 9.9 | 133314.5 | -2806.5 | 10285 | 9.3 | 134417.9 | -2830.8 | 10375 | 9.4 | 135353.4 | -2821.1 |
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| 10107 | 9.8 | 132334.7 | -2848.8 | 10197 | 8.6 | 133339.6 | -2821.7 | 10287 | 10.0 | 134440.2 | -2843.7 | 10377 | 9.5 | 135355.1 | -2820.6 |
| 10108 | 10.0 | 132337.3 | -2803.7 | 10198 | 10.0 | 133344.1 | -2836.3 | 10288 | 9.4 | 134441.5 | -2818.2 | 10378 | 9.7 | 135403.7 | -2832.1 |
| 10109 | 10.0 | 132338.0 | -2856.8 | 10199 | 9.5 | 133347.6 | -2814.7 | 10289 | 9.4 | 134442.1 | -2806.2 | 10379 | 10.0 | 135404.4 | -2809.8 |
| 10110 | 10.0 | 132340.6 | -2842.8 | 10200 | 9.1 | 133357.6 | -2806.5 | 10290 | 9.2 | 134444.9 | -2837.3 | 10380 | 9.6 | 135405.1 | -2835.8 |
| 10111 | 9.5 | 132343.3 | -2816.2 | 10201 | 10.0 | 133359.7 | -2824.7 | 10291 | 9.7 | 134452.6 | -2810.9 | 10381 | 9.9 | 135405.5 | -2849.2 |
| 10112 | 9.6 | 132347.8 | -2801.4 | 10202 | 10.0 | 133408.9 | -2812.7 | 10292 | 10.0 | 134505.6 | -2836.3 | 10382 | 10.0 | 135422.7 | -2836.8 |
| 10113 | 9.9 | 132354.4 | -2804.1 | 10203 | 9.2 | 133415.7 | -2847.8 | 10293 | 10.0 | 134508.5 | -2830.3 | 10383 | 10.0 | 135423.9 | -2811.6 |
| 10114 | 9.7 | 132419.3 | -2805.7 | 10204 | 9.3 | 133418.2 | -2809.2 | 10294 | 10.0 | 134518.0 | -2848.2 | 10384 | 9.9 | 135426.1 | -2816.2 |
| 10115 | 9.7 | 132422.7 | -2856.2 | 10205 | 9.0 | 133421.6 | -2828.5 | 10295 | 10.0 | 134555.3 | -2823.2 | 10385 | 8.5 | 135428.6 | -2847.2 |
| 10116 | 10.0 | 132424.6 | -2855.2 | 10206 | 8.6 | 133440.3 | -2837.3 | 10296 | 10.0 | 134601.1 | -2848.2 | 10386 | 10.0 | 135432.6 | -2830.1 |
| 10117 | 10.0 | 132435.5 | -2814.7 | 10207 | 8.1 | 133443.9 | -2807.8 | 10297 | 10.0 | 134603.7 | -2807.8 | 10387 | 9.2 | 135442.1 | -2852.2 |
| 10118 | 9.4 | 132438.4 | -2835.6 | 10208 | 10.0 | 133451.5 | -2801.3 | 10298 | 9.8 | 134607.3 | -2803.0 | 10388 | 10.0 | 135446.6 | -2806.1 |
| 10119 | 9.6 | 132450.6 | -2836.9 | 10209 | 10.0 | 133453.9 | -2851.1 | 10299 | 9.5 | 134614.6 | -2848.7 | 10389 | 9.8 | 135450.8 | -2850.2 |
| 10120 | 9.9 | 132451.5 | -2858.8 | 10210 | 9.1 | 133455.3 | -2819.2 | 10300 | 10.0 | 134616.7 | -2858.3 | 10390 | 10.0 | 135457.3 | -2856.7 |
| 10121 | 9.6 | 132500.4 | -2804.7 | 10211 | 9.3 | 133505.5 | -2813.2 | 10301 | 10.0 | 134624.4 | -2842.3 | 10391 | 10.0 | 135504.5 | -2824.1 |
| 10122 | 10.0 | 132510.6 | -2859.6 | 10212 | 9.7 | 133505.8 | -2832.8 | 10302 | 8.4 | 134625.0 | -2823.5 | 10392 | 10.0 | 135504.5 | -2850.2 |
| 10123 | 9.9 | 132513.0 | -2813.2 | 10213 | 8.8 | 133514.6 | -2829.1 | 10303 | 10.0 | 134644.3 | -2812.2 | 10393 | 10.0 | 135506.8 | -2800.6 |
| 10124 | 9.9 | 132521.6 | -2805.7 | 10214 | 9.6 | 133517.4 | -2830.1 | 10304 | 10.0 | 134654.2 | -2823.2 | 10394 | 9.5 | 135507.9 | -2841.8 |
| 10125 | 10.0 | 132532.4 | -2819.4 | 10215 | 9.1 | 133520.8 | -2834.1 | 10305 | 10.0 | 134656.1 | -2848.2 | 10395 | 10.0 | 135510.7 | -2828.2 |
| 10126 | 8.0 | 132535.5 | -2839.4 | 10216 | 10.0 | 133533.8 | -2826.5 | 10306 | 10.0 | 134657.7 | -2815.7 | 10396 | 10.0 | 135514.3 | -2849.2 |
| 10127 | 6.8 | 132536.1 | -2855.2 | 10217 | 9.5 | 133537.5 | -2852.2 | 10307 | 10.0 | 134659.3 | -2854.2 | 10397 | 9.7 | 135516.0 | -2851.7 |
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| 10130 | 9.6 | 132555.5 | -2833.9 | 10220 | 10.0 | 133558.3 | -2833.3 | 10310 | 9.3 | 134732.3 | -2833.1 | 10400 | 10.0 | 135532.6 | -2851.2 |
| 10131 | 9.3 | 132601.9 | -2832.9 | 10221 | 9.8 | 133607.7 | -2826.5 | 10311 | 10.0 | 134735.2 | -2821.5 | 10401 | 8.7 | 135537.1 | -2847.3 |
| 10132 | 9.0 | 132608.7 | -2839.4 | 10222 | 8.0 | 133607.7 | -2847.7 | 10312 | 9.5 | 134741.7 | -2845.6 | 10402 | 9.7 | 135548.5 | -2816.9 |
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| 10134 | 8.7 | 132615.5 | -2819.6 | 10224 | 9.5 | 133625.1 | -2859.2 | 10314 | 8.5 | 134743.6 | -2818.2 | 10404 | 10.0 | 135616.3 | -2831.2 |
| 10135 | 9.3 | 132619.1 | -2852.8 | 10225 | 10.0 | 133628.8 | -2859.2 | 10315 | 10.0 | 134744.3 | -2819.7 | 10405 | 10.0 | 135617.6 | -2847.1 |
| 10136 | 10.0 | 132631.8 | -2813.2 | 10226 | 9.5 | 133650.4 | -2805.2 | 10316 | 9.9 | 134747.9 | -2802.8 | 10406 | 8.8 | 135619.8 | -2843.3 |
| 10137 | 9.7 | 132632.5 | -2801.4 | 10227 | 9.9 | 133652.6 | -2822.7 | 10317 | 10.0 | 134753.8 | -2804.8 | 10407 | 9.0 | 135620.1 | -2850.2 |
| 10138 | 8.6 | 132633.2 | -2855.5 | 10228 | 8.0 | 133655.0 | -2802.2 | 10318 | 9.1 | 134757.5 | -2828.5 | 10408 | 10.0 | 135627.7 | -2823.1 |
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| 10141 | 10.0 | 132653.6 | -2835.9 | 10231 | 9.6 | 133711.5 | -2812.2 | 10321 | 9.7 | 134825.6 | -2837.8 | 10411 | 9.0 | 135643.2 | -2858.7 |
| 10142 | 8.7 | 132704.6 | -2859.5 | 10232 | 9.9 | 133713.6 | -2806.2 | 10322 | 10.0 | 134838.4 | -2834.3 | 10412 | 10.0 | 135647.6 | -2826.1 |
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| 10144 | 9.6 | 132713.0 | -2804.4 | 10234 | 9.9 | 133728.1 | -2808.7 | 10324 | 9.9 | 134853.5 | -2830.5 | 10414 | 9.1 | 135650.4 | -2817.9 |
| 10145 | 9.9 | 132720.1 | -2859.2 | 10235 | 9.5 | 133730.3 | -2819.2 | 10325 | 10.0 | 134901.1 | -2848.2 | 10415 | 9.5 | 135652.9 | -2802.5 |
| 10146 | 10.0 | 132726.5 | -2842.9 | 10236 | 10.0 | 133750.1 | -2835.8 | 10326 | 10.0 | 134904.6 | -2825.4 | 10416 | 9.5 | 135653.8 | -2832.3 |
| 10147 | 10.0 | 132728.1 | -2850.6 | 10237 | 9.0 | 133750.9 | -2817.3 | 10327 | 9.7 | 134907.5 | -2818.0 | 10417 | 9.5 | 135702.4 | -2826.2 |
| 10148 | 9.7 | 132733.0 | -2835.2 | 10238 | 10.0 | 133806.7 | -2835.7 | 10328 | 10.0 | 134909.0 | -2809.1 | 10418 | 8.2 | 135712.2 | -2800.0 |
| 10149 | 9.4 | 132759.6 | -2806.7 | 10239 | 10.0 | 133807.3 | -2853.7 | 10329 | 9.9 | 134914.5 | -2842.9 | 10419 | 7.4 | 135715.8 | -2827.9 |
| 10150 | 8.9 | 132810.9 | -2845.0 | 10240 | 10.0 | 133807.3 | -2819.7 | 10330 | 9.5 | 134919.1 | -2836.1 | 10420 | 9.9 | 135718.1 | -2808.7 |
| 10151 | 9.5 | 132813.0 | -2838.9 | 10241 | 9.3 | 133815.6 | -2823.7 | 10331 | 9.6 | 134921.4 | -2801.8 | 10421 | 10.0 | 135734.6 | -2817.9 |
| 10152 | 10.0 | 132813.3 | -2848.4 | 10242 | 9.0 | 133830.9 | -2854.2 | 10332 | 9.7 | 134934.9 | -2818.6 | 10422 | 8.8 | 135736.4 | -2855.2 |
| 10153 | 9.5 | 132816.7 | -2848.2 | 10243 | 9.0 | 133837.2 | -2820.2 | 10333 | 9.6 | 134946.3 | -2803.6 | 10423 | 8.0 | 135740.5 | -2832.4 |
| 10154 | 9.5 | 132819.2 | -2804.9 | 10244 | 10.0 | 133840.6 | -2832.8 | 10334 | 9.9 | 134953.3 | -2854.7 | 10424 | 9.5 | 135759.4 | -2844.8 |
| 10155 | 8.5 | 132830.6 | -2831.2 | 10245 | 9.0 | 133843.6 | -2859.2 | 10335 | 10.0 | 134953.5 | -2826.1 | 10425 | 9.3 | 135800.4 | -2842.8 |
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| 10158 | 10.0 | 132838.9 | -2850.9 | 10248 | 10.0 | 133911.3 | -2844.6 | 10338 | 7.3 | 135010.4 | -2801.3 | 10428 | 10.0 | 135814.0 | -2824.9 |
| 10159 | 8.0 | 132840.6 | -2844.3 | 10249 | 9.6 | 133922.0 | -2847.7 | 10339 | 8.8 | 135012.2 | -2841.3 | 10429 | 10.0 | 135826.6 | -2842.7 |
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-2810462 14h01m

-2810821 14h29m

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11493 9.6 153319.8 -2809.1
11494 9.7 153328.8 -2856.3
11495 9.2 153341.7 -2848.8
11496 10.0 153344.4 -2825.7
11497 9.7 153346.1 -2826.7
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11502 9.9 153408.2 -2811.6
11503 9.5 153411.0 -2838.4
11504 10.0 153413.8 -2824.4
11505 10.0 153422.4 -2805.4
11506 9.7 153429.3 -2816.6
11507 8.8 153430.4 -2829.0
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11510 10.0 153447.4 -2846.8
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11512 10.0 153450.2 -2827.4
11513 9.7 153458.0 -2844.8
11514 10.0 153522.2 -2855.8
11515 9.9 153536.1 -2831.4
11516 8.5 153540.7 -2847.8
11517 10.0 153548.8 -2814.2
11518 9.5 153555.7 -2810.1
11519 9.0 153559.6 -2810.1
11520 9.6 153604.2 -2823.7
11520a 9.5 153604.2 -2812.1

11521 9.5 153615.0 -2844.8
11522 10.0 153616.5 -2830.8
11523 9.3 153629.4 -2826.0
11524 10.0 153631.2 -2856.8
11525 9.4 153631.3 -2848.2
11526 9.3 153633.2 -2807.7
11527 9.6 153633.8 -2820.6
11528 9.7 153634.1 -2811.1
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11532 9.1 153655.4 -2831.0
11533 9.7 153658.6 -2828.6
11534 10.0 153706.1 -2854.3
11535 9.6 153707.9 -2840.8
11536 10.0 153721.0 -2848.8
11537 9.9 153726.6 -2834.8
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11539 9.9 153730.2 -2849.3
11540 9.7 153730.3 -2827.4

-2811540 15h37m

-2811541 15h37m

| | | | | | | | | | | | | | | | |
|-------|------|----------|---------|-------|------|----------|---------|-------|------|----------|---------|-------|------|----------|---------|
| 11541 | 8.0 | 153734.5 | -2808.1 | 11631 | 9.7 | 154425.6 | -2831.0 | 11721 | 10.0 | 154939.9 | -2843.4 | 11811 | 9.7 | 155435.6 | -2821.5 |
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| 11543 | 9.6 | 153737.7 | -2846.6 | 11633 | 9.6 | 154437.3 | -2804.7 | 11723 | 10.0 | 154943.5 | -2827.6 | 11813 | 9.9 | 155441.9 | -2803.0 |
| 11544 | 9.5 | 153740.1 | -2804.1 | 11634 | 9.9 | 154440.5 | -2812.9 | 11724 | 9.6 | 154948.1 | -2834.4 | 11814 | 9.6 | 155443.5 | -2851.2 |
| 11545 | 9.9 | 153741.1 | -2834.4 | 11635 | 10.0 | 154452.4 | -2827.9 | 11725 | 9.8 | 155002.3 | -2801.6 | 11815 | 10.0 | 155445.0 | -2804.3 |
| 11546 | 9.4 | 153742.6 | -2814.8 | 11636 | 9.9 | 154509.4 | -2823.9 | 11726 | 9.8 | 155006.5 | -2822.8 | 11816 | 10.0 | 155449.7 | -2858.5 |
| 11547 | 9.7 | 153743.4 | -2841.4 | 11637 | 10.0 | 154511.3 | -2819.2 | 11727 | 10.0 | 155009.3 | -2841.9 | 11817 | 6.7 | 155455.6 | -2846.9 |
| 11548 | 9.6 | 153745.1 | -2825.3 | 11638 | 9.9 | 154512.5 | -2831.9 | 11728 | 10.0 | 155012.8 | -2849.6 | 11818 | 10.0 | 155457.3 | -2816.0 |
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| 11550 | 9.9 | 153754.8 | -2811.6 | 11640 | 9.5 | 154520.4 | -2855.3 | 11730 | 10.0 | 155013.2 | -2829.4 | 11820 | 9.4 | 155500.6 | -2813.1 |
| 11551 | 10.0 | 153756.8 | -2819.1 | 11641 | 9.7 | 154522.6 | -2850.8 | 11731 | 9.9 | 155013.6 | -2840.6 | 11821 | 10.0 | 155505.8 | -2818.9 |
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| 11553 | 10.0 | 153803.1 | -2850.4 | 11643 | 9.5 | 154537.8 | -2824.6 | 11733 | 9.8 | 155018.3 | -2807.8 | 11823 | 9.9 | 155523.9 | -2853.7 |
| 11554 | 10.0 | 153804.0 | -2829.4 | 11644 | 9.7 | 154537.9 | -2845.4 | 11734 | 9.5 | 155022.3 | -2809.3 | 11824 | 9.7 | 155528.6 | -2805.4 |
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| 11558 | 9.6 | 153823.2 | -2844.0 | 11648 | 9.9 | 154558.1 | -2828.6 | 11738 | 10.0 | 155030.2 | -2803.2 | 11828 | 10.0 | 155551.0 | -2827.4 |
| 11559 | 10.0 | 153833.4 | -2824.6 | 11649 | 9.7 | 154559.0 | -2853.4 | 11739 | 9.9 | 155030.7 | -2801.8 | 11829 | 9.1 | 155553.1 | -2847.6 |
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| 11564 | 10.0 | 153852.5 | -2822.2 | 11654 | 9.7 | 154616.5 | -2841.1 | 11744 | 10.0 | 155110.6 | -2848.0 | 11834 | 9.8 | 155618.6 | -2858.7 |
| 11565 | 9.6 | 153854.9 | -2848.0 | 11655 | 10.0 | 154621.9 | -2824.8 | 11745 | 10.0 | 155114.7 | -2822.3 | 11835 | 9.8 | 155619.2 | -2838.0 |
| 11566 | 10.0 | 153901.8 | -2826.1 | 11656 | 10.0 | 154625.0 | -2832.1 | 11746 | 9.6 | 155115.8 | -2833.5 | 11836 | 10.0 | 155620.6 | -2816.9 |
| 11567 | 10.0 | 153917.2 | -2803.8 | 11657 | 10.0 | 154625.7 | -2835.2 | 11747 | 10.0 | 155126.6 | -2827.2 | 11837 | 10.0 | 155622.5 | -2806.5 |
| 11568 | 9.0 | 153919.7 | -2810.2 | 11658 | 9.9 | 154626.4 | -2858.2 | 11748 | 9.7 | 155127.1 | -2814.8 | 11838 | 10.0 | 155623.7 | -2832.9 |
| 11569 | 10.0 | 153923.8 | -2822.2 | 11659 | 10.0 | 154626.7 | -2813.8 | 11749 | 10.0 | 155128.9 | -2840.4 | 11839 | 9.6 | 155626.0 | -2814.1 |
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| 11574 | 9.0 | 154000.6 | -2855.3 | 11664 | 9.7 | 154642.9 | -2809.2 | 11754 | 10.0 | 155151.2 | -2812.9 | 11844 | 9.8 | 155655.1 | -2843.7 |
| 11575 | 9.9 | 154004.2 | -2858.3 | 11665 | 10.0 | 154645.3 | -2816.5 | 11755 | 8.8 | 155151.3 | -2837.6 | 11845 | 10.0 | 155658.1 | -2857.7 |
| 11576 | 9.9 | 154004.9 | -2816.8 | 11666 | 10.0 | 154649.0 | -2856.4 | 11756 | 9.8 | 155153.1 | -2818.9 | 11846 | 10.0 | 155701.5 | -2840.8 |
| 11577 | 9.7 | 154018.6 | -2820.2 | 11667 | 10.0 | 154649.4 | -2859.4 | 11757 | 10.0 | 155158.5 | -2843.4 | 11847 | 10.0 | 155711.4 | -2832.2 |
| 11578 | 9.7 | 154021.8 | -2844.4 | 11668 | 9.2 | 154651.5 | -2846.4 | 11758 | 10.0 | 155200.5 | -2819.3 | 11848 | 9.7 | 155716.5 | -2853.9 |
| 11579 | 9.5 | 154023.0 | -2853.8 | 11669 | 9.5 | 154652.7 | -2828.1 | 11759 | 9.9 | 155201.2 | -2848.4 | 11849 | 9.9 | 155717.0 | -2842.2 |
| 11580 | 9.9 | 154026.1 | -2800.8 | 11670 | 9.5 | 154654.7 | -2826.9 | 11760 | 9.5 | 155201.9 | -2818.7 | 11850 | 10.0 | 155719.4 | -2801.2 |
| 11581 | 10.0 | 154026.8 | -2832.0 | 11671 | 9.5 | 154655.4 | -2849.0 | 11761 | 9.7 | 155207.4 | -2829.1 | 11851 | 8.9 | 155720.9 | -2809.6 |
| 11582 | 9.8 | 154031.2 | -2821.2 | 11672 | 9.6 | 154656.2 | -2821.3 | 11762 | 10.0 | 155207.8 | -2806.9 | 11852 | 9.6 | 155724.2 | -2841.2 |
| 11583 | 9.3 | 154035.6 | -2815.2 | 11673 | 9.8 | 154701.5 | -2833.6 | 11763 | 9.7 | 155208.3 | -2823.5 | 11853 | 9.6 | 155726.2 | -2827.9 |
| 11584 | 9.4 | 154040.0 | -2818.7 | 11674 | 9.5 | 154703.8 | -2841.6 | 11764 | 10.0 | 155220.0 | -2853.2 | 11854 | 9.9 | 155729.2 | -2820.0 |
| 11585 | 7.6 | 154043.2 | -2823.6 | 11675 | 9.9 | 154710.0 | -2825.4 | 11765 | 10.0 | 155221.9 | -2818.1 | 11855 | 9.6 | 155730.3 | -2804.9 |
| 11586 | 9.9 | 154051.7 | -2821.2 | 11676 | 9.8 | 154711.4 | -2830.8 | 11766 | 9.9 | 155223.9 | -2827.7 | 11856 | 9.8 | 155731.3 | -2839.8 |
| 11587 | 9.8 | 154053.3 | -2833.6 | 11677 | 9.7 | 154712.9 | -2840.9 | 11767 | 10.0 | 155224.1 | -2842.0 | 11857 | 9.3 | 155732.4 | -2847.6 |
| 11588 | 10.0 | 154053.7 | -2808.7 | 11678 | 10.0 | 154717.6 | -2802.3 | 11768 | 10.0 | 155231.7 | -2842.9 | 11858 | 9.8 | 155734.9 | -2854.0 |
| 11589 | 9.9 | 154056.3 | -2839.3 | 11679 | 9.7 | 154722.8 | -2851.3 | 11769 | 10.0 | 155234.6 | -2834.4 | 11859 | 9.6 | 155736.6 | -2850.3 |
| 11590 | 10.0 | 154058.2 | -2829.4 | 11680 | 10.0 | 154724.0 | -2832.3 | 11770 | 9.9 | 155236.6 | -2843.9 | 11860 | 9.9 | 155740.1 | -2845.8 |
| 11591 | 10.0 | 154100.6 | -2845.9 | 11681 | 9.4 | 154725.4 | -2838.0 | 11771 | 10.0 | 155242.2 | -2849.6 | 11861 | 8.8 | 155753.4 | -2813.7 |
| 11592 | 10.0 | 154105.3 | -2826.7 | 11682 | 9.9 | 154730.5 | -2827.8 | 11772 | 10.0 | 155243.6 | -2850.5 | 11862 | 9.8 | 155756.4 | -2859.3 |
| 11593 | 9.7 | 154110.8 | -2834.0 | 11683 | 9.7 | 154733.5 | -2820.7 | 11773 | 10.0 | 155246.1 | -2807.9 | 11863 | 9.6 | 155757.6 | -2853.1 |
| 11594 | 10.0 | 154124.8 | -2845.0 | 11684 | 10.0 | 154734.5 | -2828.0 | 11774 | 10.0 | 155247.0 | -2839.6 | 11864 | 10.0 | 155814.5 | -2819.7 |
| 11595 | 9.9 | 154125.9 | -2845.4 | 11685 | 10.0 | 154736.0 | -2853.8 | 11775 | 10.0 | 155251.6 | -2836.4 | 11865 | 10.0 | 155819.3 | -2853.1 |
| 11596 | 10.0 | 154128.7 | -2854.8 | 11686 | 9.9 | 154737.1 | -2811.2 | 11776 | 10.0 | 155254.1 | -2838.3 | 11866 | 8.8 | 155824.1 | -2839.5 |
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| 11600 | 8.4 | 154203.2 | -2831.6 | 11690 | 8.5 | 154749.5 | -2848.9 | 11780 | 9.7 | 155300.1 | -2803.4 | 11870 | 9.9 | 155842.7 | -2857.4 |
| 11601 | 9.8 | 154212.3 | -2841.6 | 11691 | 10.0 | 154751.5 | -2838.4 | 11781 | 9.4 | 155306.5 | -2828.9 | 11871 | 9.9 | 155845.8 | -2859.0 |
| 11602 | 10.0 | 154223.0 | -2826.3 | 11692 | 9.6 | 154754.3 | -2846.6 | 11782 | 10.0 | 155321.8 | -2817.6 | 11872 | 9.8 | 155847.1 | -2811.8 |
| 11603 | 10.0 | 154229.0 | -2808.9 | 11693 | 10.0 | 154755.9 | -2819.6 | 11783 | 10.0 | 155324.6 | -2824.5 | 11873 | 10.0 | 155848.3 | -2849.6 |
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| 11605 | 8.4 | 154231.3 | -2819.3 | 11695 | 9.6 | 154801.9 | -2802.9 | 11785 | 10.0 | 155325.4 | -2851.6 | 11875 | 10.0 | 155854.3 | -2844.4 |
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| 11608 | 9.4 | 154241.8 | -2851.0 | 11698 | 9.9 | 154808.1 | -2828.4 | 11788 | 9.7 | 155328.4 | -2813.8 | 11878 | 10.0 | 155901.0 | -2823.2 |
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-2811901 16h00m

-2812260 16h30m

| | | | |
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| 11901 9.0 160056.6 -2849.6 | 11991 9.4 160642.3 -2854.7 | 12081 9.1 161536.9 -2844.8 | 12171 10.0 162415.4 -2810.2 |
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| 11914 9.9 160137.0 -2810.0 | 12004 9.5 160742.5 -2833.8 | 12094 9.8 161630.7 -2836.9 | 12184 9.9 162458.4 -2842.9 |
| 11915 10.0 160144.8 -2805.0 | 12005 10.0 160748.1 -2813.8 | 12095 9.3 161631.1 -2825.1 | 12185 10.0 162459.7 -2859.3 |
| 11916 10.0 160154.3 -2809.0 | 12006 10.0 160759.0 -2841.2 | 12096 9.7 161631.8 -2854.8 | 12186 9.5 162503.1 -2846.3 |
| 11917 9.3 160159.2 -2838.3 | 12007 9.9 160800.2 -2848.2 | 12097 9.8 161647.3 -2817.1 | 12187 9.5 162503.9 -2804.7 |
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| 11924 9.6 160218.9 -2819.8 | 12014 8.6 160828.4 -2855.7 | 12104 10.0 161737.5 -2812.8 | 12194 9.4 162521.8 -2826.9 |
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| 13762 | 9.7 | 174513.8 | -2829.6 | 13852 | 10.0 | 174801.7 | -2833.6 | 13941 | 9.6 | 175058.0 | -2859.7 | 14031 | 9.8 | 175359.7 | -2805.8 |
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-2815139 18h46m

-2815140 18h47m

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-2817300 21h21m

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-2818019 22h52m

| | | | | | | | | | | | | | | | |
|-------|------|----------|---------|-------|------|----------|---------|-------|------|----------|---------|-------|------|----------|---------|
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| 18029 | 9.8 | 225320.0 | -2833.7 | 18119 | 9.9 | 230749.1 | -2814.0 | 18209 | 9.9 | 232140.0 | -2837.7 | 18299 | 9.6 | 233557.4 | -2847.3 |
| 18030 | 9.5 | 225322.1 | -2818.0 | 18120 | 10.0 | 230755.8 | -2841.0 | 18210 | 9.6 | 232145.8 | -2830.7 | 18300 | 10.0 | 233601.8 | -2857.2 |
| 18031 | 8.4 | 225324.6 | -2835.4 | 18121 | 10.0 | 230756.0 | -2831.0 | 18211 | 10.0 | 232148.8 | -2818.3 | 18301 | 8.1 | 233602.2 | -2852.7 |
| 18032 | 9.7 | 225326.2 | -2831.1 | 18122 | 9.1 | 230759.2 | -2816.0 | 18212 | 10.0 | 232159.1 | -2830.3 | 18302 | 9.7 | 233607.6 | -2843.0 |
| 18033 | 9.8 | 225333.3 | -2813.4 | 18123 | 9.6 | 230759.5 | -2855.1 | 18213 | 10.0 | 232204.8 | -2833.7 | 18303 | 10.0 | 233610.1 | -2810.0 |
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| 18035 | 9.1 | 225346.9 | -2832.4 | 18125 | 9.9 | 230817.5 | -2819.4 | 18215 | 10.0 | 232212.2 | -2847.7 | 18305 | 10.0 | 233620.1 | -2817.8 |
| 18036 | 9.4 | 225351.9 | -2848.4 | 18126 | 10.0 | 230819.0 | -2849.4 | 18216 | 10.0 | 232214.2 | -2855.5 | 18306 | 9.9 | 233645.0 | -2818.7 |
| 18037 | 9.7 | 225354.8 | -2803.4 | 18127 | 9.7 | 230843.4 | -2825.7 | 18217 | 9.6 | 232216.8 | -2843.0 | 18307 | 9.6 | 233645.5 | -2811.0 |
| 18038 | 9.7 | 225408.6 | -2853.7 | 18128 | 9.1 | 230845.3 | -2810.5 | 18218 | 10.0 | 232218.9 | -2824.0 | 18308 | 9.6 | 233650.2 | -2814.0 |
| 18039 | 9.7 | 225409.4 | -2842.4 | 18129 | 9.1 | 230904.3 | -2829.5 | 18219 | 9.9 | 232225.7 | -2819.0 | 18309 | 10.0 | 233652.2 | -2802.7 |
| 18040 | 9.4 | 225413.0 | -2806.0 | 18130 | 9.9 | 230906.3 | -2846.5 | 18220 | 7.6 | 232228.9 | -2857.5 | 18310 | 9.7 | 233653.4 | -2853.2 |
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| 18042 | 9.7 | 225434.0 | -2846.1 | 18132 | 9.3 | 230915.0 | -2809.6 | 18222 | 9.7 | 232250.6 | -2821.3 | 18312 | 10.0 | 233657.8 | -2806.0 |
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| 18045 | 9.2 | 225441.8 | -2851.4 | 18135 | 9.8 | 230936.6 | -2840.3 | 18225 | 9.7 | 232254.5 | -2841.7 | 18315 | 9.9 | 233718.6 | -2852.3 |
| 18046 | 9.5 | 225444.2 | -2828.4 | 18136 | 10.0 | 230937.4 | -2818.0 | 18226 | 10.0 | 232259.6 | -2806.5 | 18316 | 9.0 | 233721.8 | -2843.9 |
| 18047 | 9.2 | 225447.5 | -2842.4 | 18137 | 10.0 | 230944.6 | -2832.8 | 18227 | 8.9 | 232456.7 | -2803.3 | 18317 | 9.5 | 233723.5 | -2814.0 |
| 18048 | 9.9 | 225449.1 | -2821.0 | 18138 | 9.7 | 231013.9 | -2804.0 | 18228 | 10.0 | 232459.9 | -2829.3 | 18318 | 9.6 | 233724.1 | -2830.7 |
| 18049 | 10.0 | 225459.5 | -2829.4 | 18139 | 10.0 | 231018.0 | -2856.8 | 18229 | 10.0 | 232515.6 | -2802.0 | 18319 | 9.6 | 233734.6 | -2827.4 |
| 18050 | 10.0 | 225504.5 | -2858.4 | 18140 | 10.0 | 231051.5 | -2806.0 | 18230 | 10.0 | 232517.7 | -2844.5 | 18320 | 9.4 | 233744.1 | -2818.0 |
| 18051 | 10.0 | 225521.8 | -2809.2 | 18141 | 9.5 | 231058.0 | -2826.7 | 18231 | 10.0 | 232521.5 | -2848.7 | 18321 | 9.6 | 233758.9 | -2811.3 |
| 18052 | 9.0 | 225522.3 | -2801.7 | 18142 | 9.5 | 231102.3 | -2849.3 | 18232 | 9.7 | 232526.5 | -2831.3 | 18322 | 9.4 | 233801.2 | -2843.7 |
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| 18058 | 10.0 | 225704.5 | -2849.7 | 18148 | 10.0 | 231223.7 | -2813.2 | 18238 | 10.0 | 232652.8 | -2813.0 | 18328 | 10.0 | 233834.4 | -2826.0 |
| 18059 | 9.0 | 225709.2 | -2810.0 | 18149 | 9.7 | 231242.1 | -2852.7 | 18239 | 10.0 | 232654.9 | -2823.0 | 18329 | 9.6 | 233839.7 | -2803.3 |
| 18060 | 8.2 | 225719.7 | -2854.5 | 18150 | 9.9 | 231258.6 | -2856.8 | 18240 | 9.2 | 232716.4 | -2841.4 | 18330 | 8.4 | 233908.2 | -2812.3 |
| 18061 | 9.5 | 225724.5 | -2827.7 | 18151 | 9.2 | 231302.7 | -2844.0 | 18241 | 10.0 | 232727.3 | -2854.8 | 18331 | 10.0 | 233919.6 | -2820.0 |
| 18062 | 9.3 | 225726.0 | -2839.0 | 18152 | 9.8 | 231307.8 | -2827.3 | 18242 | 10.0 | 232744.2 | -2846.3 | 18332 | 9.8 | 233922.9 | -2847.7 |
| 18063 | 9.8 | 225734.4 | -2829.4 | 18153 | 10.0 | 231318.0 | -2811.3 | 18243 | 10.0 | 232747.7 | -2848.3 | 18333 | 9.8 | 233927.1 | -2851.3 |
| 18064 | 10.0 | 225745.1 | -2835.4 | 18154 | 10.0 | 231324.0 | -2831.0 | 18244 | 9.9 | 232747.8 | -2829.5 | 18334 | 10.0 | 233934.6 | -2831.0 |
| 18065 | 10.0 | 225750.8 | -2836.4 | 18155 | 9.7 | 231328.6 | -2809.7 | 18245 | 9.0 | 232754.8 | -2827.3 | 18335 | 9.6 | 233939.7 | -2833.3 |
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| 18069 | 10.0 | 225821.7 | -2800.0 | 18159 | 8.4 | 231413.7 | -2821.3 | 18249 | 9.3 | 232809.0 | -2806.0 | 18339 | 10.0 | 234030.8 | -2821.3 |
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| 18071 | 10.0 | 225842.3 | -2814.0 | 18161 | 9.0 | 231425.8 | -2849.7 | 18251 | 10.0 | 232817.1 | -2837.3 | 18341 | 9.4 | 234041.5 | -2833.7 |
| 18072 | 9.9 | 225855.3 | -2841.2 | 18162 | 9.1 | 231435.4 | -2830.3 | 18252 | 9.8 | 232819.1 | -2825.0 | 18342 | 9.6 | 234048.8 | -2811.0 |
| 18073 | 9.9 | 225907.1 | -2824.7 | 18163 | 10.0 | 231445.8 | -2852.7 | 18253 | 9.9 | 232823.0 | -2859.3 | 18343 | 10.0 | 234101.4 | -2841.3 |
| 18074 | 10.0 | 225909.9 | -2818.7 | 18164 | 9.7 | 231456.0 | -2828.0 | 18254 | 10.0 | 232834.0 | -2822.7 | 18344 | 9.9 | 234110.4 | -2847.2 |
| 18075 | 9.9 | 225921.7 | -2803.4 | 18165 | 10.0 | 231505.4 | -2832.0 | 18255 | 10.0 | 232835.4 | -2821.4 | 18345 | 10.0 | 234130.0 | -2803.2 |
| 18076 | 10.0 | 225938.2 | -2824.0 | 18166 | 9.6 | 231524.0 | -2842.3 | 18256 | 10.0 | 232857.6 | -2852.3 | 18346 | 9.3 | 234139.1 | -2806.7 |
| 18077 | 10.0 | 225940.2 | -2852.2 | 18167 | 9.7 | 231530.4 | -2838.7 | 18257 | 9.5 | 232904.5 | -2810.3 | 18347 | 10.0 | 234140.2 | -2833.7 |
| 18078 | 9.2 | 225941.8 | -2808.0 | 18168 | 10.0 | 231532.6 | -2849.7 | 18258 | 10.0 | 232906.6 | -2832.7 | 18348 | 10.0 | 234143.0 | -2853.7 |
| 18079 | 9.6 | 225946.9 | -2811.4 | 18169 | 10.0 | 231534.0 | -2810.5 | 18259 | 9.8 | 232910.2 | -2802.5 | 18349 | 9.6 | 234143.8 | -2813.7 |
| 18080 | 9.2 | 225958.8 | -2823.4 | 18170 | 10.0 | 231554.7 | -2836.0 | 18260 | 9.9 | 232927.5 | -2854.2 | 18350 | 8.4 | 234148.5 | -2835.3 |
| 18081 | 10.0 | 230007.9 | -2817.0 | 18171 | 9.8 | 231555.6 | -2840.0 | 18261 | 9.7 | 232937.3 | -2818.7 | 18351 | 9.0 | 234216.5 | -2813.8 |
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| 18084 | 9.5 | 230040.3 | -2812.7 | 18174 | 10.0 | 231631.5 | -2818.7 | 18264 | 10.0 | 232946.6 | -2807.7 | 18354 | 9.6 | 234228.6 | -2812.6 |
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| 18087 | 10.0 | 230100.1 | -2839.5 | 18177 | 9.4 | 231701.6 | -2832.7 | 18267 | 9.6 | 233006.4 | -2854.8 | 18357 | 9.3 | 234237.2 | -2841.1 |
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| 18089 | 10.0 | 230127.5 | -2841.2 | 18179 | 9.3 | 231705.8 | -2853.0 | 18269 | 10.0 | 233018.4 | -2856.0 | 18359 | 10.0 | 234246.5 | -2818.5 |
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-2818380 23h47m

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-29 1003 2h38m

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| 1807 10.0 43221.8 -2913.0 | 1897 9.9 44439.2 -2942.6 | 1987 9.6 45432.8 -2952.3 | 2077 9.3 50349.5 -2903.8 |
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-29 2083 5h04m

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-29 2442 5h39m

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-29 2443 5h39m

-29 2802 6h03m

| | | | |
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-29 3882 7h01m

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-29 3883 7h01m

-29 4242 7h15m

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6040 9.5 81724.0 -2959.4
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-29 6042 8h17m

| | | | | | | | | | | | | | | | |
|------|------|---------|---------|------|------|---------|---------|------|------|-----------|---------|------|------|---------|---------|
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| 6048 | 10.0 | 81740.4 | -2933.7 | 6138 | 9.0 | 82029.1 | -2949.9 | 6228 | 9.6 | 82358.0 | -2959.4 | 6318 | 10.0 | 82652.5 | -2955.4 |
| 6049 | 10.0 | 81742.7 | -2943.7 | 6139 | 10.0 | 82033.2 | -2900.8 | 6229 | 9.9 | 82358.1 | -2947.8 | 6319 | 10.0 | 82653.0 | -2944.8 |
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| 6052 | 9.0 | 81745.5 | -2937.2 | 6142 | 10.0 | 82038.1 | -2952.6 | 6232 | 9.5 | 82403.4 | -2902.8 | 6322 | 10.0 | 82655.8 | -2933.0 |
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| 6061 | 9.9 | 81802.8 | -2910.4 | 6151 | 10.0 | 82056.3 | -2900.9 | 6241 | 10.0 | 82428.6 | -2939.1 | 6331 | 10.0 | 82719.7 | -2952.6 |
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| 6065 | 10.0 | 81809.6 | -2911.9 | 6155 | 10.0 | 82100.4 | -2915.8 | 6245 | 10.0 | 82439.0 | -2907.8 | 6335 | 10.0 | 82729.3 | -2906.5 |
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| 6069 | 9.5 | 81818.1 | -2900.9 | 6159 | 10.0 | 82110.5 | -2921.3 | 6249 | 7.7 | 82445.8 | -2954.2 | 6339 | 9.2 | 82732.4 | -2922.6 |
| 6070 | 8.6 | 81819.2 | -2953.3 | 6160 | 9.2 | 82113.8 | -2924.7 | 6250 | 9.4 | 82450.1 | -2900.3 | 6340 | 9.5 | 82734.7 | -2937.8 |
| 6071 | 9.2 | 81824.0 | -2924.0 | 6161 | 9.5 | 82117.2 | -2929.8 | 6251 | 10.0 | 82452.6 | -2928.2 | 6341 | 9.8 | 82735.0 | -2948.8 |
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| 6074 | 9.2 | 81830.4 | -2905.9 | 6164 | 9.4 | 82122.9 | -2941.5 | 6254 | 10.0 | 82457.8 | -2904.3 | 6344 | 9.3 | 82744.7 | -2944.8 |
| 6075 | 9.8 | 81832.1 | -2926.7 | 6165 | 9.7 | 82124.4 | -2952.5 | 6255 | 10.0 | 82500.2 | -2938.1 | 6345 | 9.5 | 82745.9 | -2902.5 |
| 6076 | 9.4 | 81835.1 | -2940.7 | 6166 | 9.9 | 82124.5 | -2913.4 | 6256 | 10.0 | 82503.0 | -2920.3 | 6346 | 9.3 | 82753.6 | -2911.5 |
| 6077 | 10.0 | 81835.1 | -2945.2 | 6167 | 9.7 | 82125.2 | -2916.0 | 6257 | 10.0 | 82503.6 | -2934.6 | 6347 | 8.6 | 82756.4 | -2933.3 |
| 6078 | 10.0 | 81836.1 | -2943.8 | 6168 | 9.4 | 82125.6 | -2903.2 | 6258 | 9.3 | 82505.4 | -2918.3 | 6348 | 9.6 | 82756.6 | -2953.2 |
| 6079 | 7.5 | 81837.5 | -2958.9 | 6169 | 9.9 | 82126.4 | -2959.4 | 6259 | 9.6 | 82507.2 | -2926.0 | 6349 | 10.0 | 82800.4 | -2949.6 |
| 6080 | 9.9 | 81838.8 | -2933.7 | 6170 | 9.6 | 82126.6 | -2920.4 | 6260 | 9.9 | 82508.5 | -2937.1 | 6350 | 10.0 | 82800.7 | -2943.6 |
| 6081 | 9.7 | 81839.1 | -2938.7 | 6171 | 9.7 | 82126.7 | -2911.3 | 6261 | 9.8 | 82509.6 | -2916.0 | 6351 | 9.6 | 82806.5 | -2954.9 |
| 6082 | 9.7 | 81841.2 | -2940.0 | 6172 | 9.9 | 82128.1 | -2924.1 | 6262 | 10.0 | 82512.8 | -2953.6 | 6352 | 8.4 | 82807.5 | -2931.6 |
| 6083 | 9.5 | 81843.5 | -2916.0 | 6173 | 9.3 | 82130.4 | -2940.2 | 6263 | 9.3 | 82514.9 | -2904.6 | 6353 | 10.0 | 82810.3 | -2952.9 |
| 6084 | 9.1 | 81845.4 | -2913.9 | 6174 | 9.9 | 82133.0 | -2924.5 | 6264 | 9.7 | 82514.9 | -2955.2 | 6354 | 10.0 | 82811.4 | -2918.5 |
| 6085 | 10.0 | 81845.7 | -2929.3 | 6175 | 8.6 | 82134.3 | -2927.0 | 6265 | 10.0 | 82518.8 | -2913.6 | 6355 | 10.0 | 82813.4 | -2952.1 |
| 6086 | 9.9 | 81847.9 | -2932.2 | 6176 | 9.0 | 82134.6 | -2953.3 | 6266 | 9.5 | 82521.0 | -2935.6 | 6356 | 10.0 | 82813.8 | -2939.1 |
| 6087 | 10.0 | 81851.2 | -2910.3 | 6177 | 9.0 | 82136.0 | -2931.7 | 6267 | 9.6 | 82525.6 | -2940.6 | 6357 | 10.0 | 82814.4 | -2933.0 |
| 6088 | 10.0 | 81853.5 | -2939.2 | 6178 | 10.0 | 82146.4 | -2930.7 | 6268 | 9.7 | 82527.7 | -2937.6 | 6358 | 9.8 | 82814.7 | -2903.5 |
| 6089 | 8.2 | 81855.6 | -2927.3 | 6179 | 10.0 | 82147.5 | -2905.8 | 6269 | 9.7 | 82527.7 | -2937.6 | 6359 | 9.6 | 82815.0 | -2924.3 |
| 6090 | 10.0 | 81859.0 | -2950.9 | 6180 | 9.7 | 82149.0 | -2909.8 | 6270 | 9.9 | 82530.4 | -2920.6 | 6360 | 9.9 | 82815.3 | -2945.1 |
| 6091 | 10.0 | 81859.8 | -2943.1 | 6181 | 9.7 | 82150.7 | -2908.8 | 6271 | 10.0 | 82531.2 | -2932.6 | 6361 | 10.0 | 82817.4 | -2944.3 |
| 6092 | 10.0 | 81903.1 | -2915.5 | 6182 | 9.9 | 82151.9 | -2949.4 | 6272 | 8.7 | 82534.2 | -2914.6 | 6362 | 10.0 | 82818.7 | -2918.8 |
| 6093 | 8.5 | 81903.4 | -2926.7 | 6183 | 9.4 | 82154.3 | -2959.4 | 6273 | 9.3 | 82536.9 | -2909.3 | 6363 | 9.7 | 82823.7 | -2931.6 |
| 6094 | 10.0 | 81904.9 | -2912.5 | 6184 | 9.8 | 82159.1 | -2951.7 | 6274 | 10.0 | 82539.7 | -2952.2 | 6364 | 10.0 | 82824.7 | -2920.1 |
| 6095 | 9.8 | 81905.6 | -2954.5 | 6185 | 9.1 | 82159.5 | -2920.3 | 6275 | 9.9 | 82541.8 | -2907.0 | 6365 | 9.6 | 82824.8 | -2929.8 |
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| 6097 | 10.0 | 81910.5 | -2932.2 | 6187 | 10.0 | 82201.5 | -2927.3 | 6277 | 9.7 | 82543.0 | -2904.9 | 6367 | 9.3 | 82827.9 | -2950.1 |
| 6098 | 10.0 | 81911.0 | -2958.9 | 6188 | 9.3 | 82203.8 | -2901.5 | 6278 | 10.0 | 82543.8 | -2954.0 | 6368 | 10.0 | 82828.0 | -2948.3 |
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-29 6403 8h29m

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-2910362 13h22m

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-2910363 13h22m

-2910722 13h51m

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-2910723 13h51m

-2911082 14h20m

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12484 10.0 161432.3 -2923.4
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-2912522 16h17m

| | | | | | | | | | | | | | | | |
|-------|------|----------|---------|-------|------|----------|---------|-------|------|----------|---------|-------|------|----------|---------|
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| 12528 | 9.1 | 161745.8 | -2934.1 | 12618 | 9.8 | 162504.6 | -2959.5 | 12708 | 7.5 | 163123.6 | -2939.7 | 12798 | 9.9 | 163647.0 | -2918.0 |
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| 12530 | 9.5 | 161751.5 | -2922.1 | 12620 | 9.1 | 162508.1 | -2903.3 | 12710 | 9.3 | 163139.7 | -2906.4 | 12800 | 10.0 | 163706.5 | -2909.4 |
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| 12533 | 10.0 | 161816.7 | -2945.5 | 12623 | 9.5 | 162518.2 | -2905.3 | 12713 | 10.0 | 163157.4 | -2905.9 | 12803 | 8.7 | 163718.5 | -2904.0 |
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| 12535 | 10.0 | 161821.1 | -2932.5 | 12625 | 8.6 | 162529.6 | -2940.6 | 12715 | 9.9 | 163204.3 | -2920.4 | 12805 | 10.0 | 163723.6 | -2944.2 |
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| 12541 | 10.0 | 161914.2 | -2949.5 | 12631 | 9.6 | 162603.3 | -2937.6 | 12721 | 9.8 | 163234.5 | -2948.7 | 12811 | 10.0 | 163803.9 | -2906.0 |
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| 12547 | 9.1 | 161927.1 | -2930.8 | 12637 | 10.0 | 162617.2 | -2938.1 | 12727 | 9.7 | 163253.4 | -2935.1 | 12817 | 9.9 | 163819.0 | -2916.0 |
| 12548 | 8.9 | 161928.4 | -2910.8 | 12638 | 8.5 | 162617.2 | -2934.2 | 12728 | 8.7 | 163259.8 | -2957.3 | 12818 | 9.6 | 163819.6 | -2931.9 |
| 12549 | 8.5 | 161934.3 | -2904.8 | 12639 | 9.4 | 162618.2 | -2921.2 | 12729 | 9.7 | 163304.3 | -2906.9 | 12819 | 10.0 | 163821.5 | -2927.2 |
| 12550 | 10.0 | 161938.2 | -2954.1 | 12640 | 10.0 | 162628.1 | -2934.1 | 12730 | 10.0 | 163305.7 | -2908.4 | 12820 | 10.0 | 163824.5 | -2923.8 |
| 12551 | 7.5 | 161940.8 | -2900.3 | 12641 | 8.9 | 162628.9 | -2926.8 | 12731 | 9.7 | 163308.7 | -2928.7 | 12821 | 9.4 | 163826.1 | -2951.8 |
| 12552 | 9.6 | 161946.5 | -2956.2 | 12642 | 9.7 | 162630.6 | -2931.7 | 12732 | 9.6 | 163310.2 | -2939.7 | 12822 | 9.6 | 163828.7 | -2920.4 |
| 12553 | 9.9 | 161951.6 | -2900.3 | 12643 | 9.8 | 162639.0 | -2955.2 | 12733 | 10.0 | 163312.8 | -2904.9 | 12823 | 9.9 | 163829.5 | -2908.5 |
| 12554 | 10.0 | 161958.4 | -2944.3 | 12644 | 9.7 | 162652.5 | -2945.1 | 12734 | 10.0 | 163313.4 | -2916.9 | 12824 | 9.5 | 163830.2 | -2918.2 |
| 12555 | 10.0 | 162018.2 | -2907.3 | 12645 | 9.9 | 162701.7 | -2918.3 | 12735 | 9.7 | 163316.1 | -2903.4 | 12825 | 9.3 | 163830.7 | -2928.2 |
| 12556 | 9.5 | 162022.4 | -2951.5 | 12646 | 10.0 | 162702.4 | -2930.6 | 12736 | 9.8 | 163318.1 | -2922.3 | 12826 | 10.0 | 163834.7 | -2938.6 |
| 12557 | 10.0 | 162024.2 | -2919.3 | 12647 | 10.0 | 162712.0 | -2907.9 | 12737 | 9.9 | 163321.6 | -2931.8 | 12827 | 9.6 | 163837.9 | -2915.5 |
| 12558 | 9.7 | 162028.9 | -2904.3 | 12648 | 9.8 | 162716.0 | -2928.2 | 12738 | 9.9 | 163321.7 | -2936.7 | 12828 | 9.5 | 163845.8 | -2932.9 |
| 12559 | 10.0 | 162032.3 | -2940.5 | 12649 | 9.3 | 162716.0 | -2926.8 | 12739 | 10.0 | 163322.0 | -2901.9 | 12829 | 9.7 | 163846.3 | -2959.3 |
| 12560 | 9.9 | 162038.0 | -2943.2 | 12650 | 10.0 | 162728.9 | -2929.1 | 12740 | 8.9 | 163326.3 | -2918.0 | 12830 | 10.0 | 163848.7 | -2925.9 |
| 12561 | 10.0 | 162046.1 | -2926.7 | 12651 | 9.6 | 162731.2 | -2901.3 | 12741 | 9.5 | 163327.5 | -2906.4 | 12831 | 9.9 | 163851.2 | -2959.0 |
| 12562 | 9.1 | 162051.9 | -2918.0 | 12652 | 7.8 | 162734.0 | -2916.3 | 12742 | 9.7 | 163327.8 | -2947.2 | 12832 | 10.0 | 163853.0 | -2945.8 |
| 12563 | 10.0 | 162053.9 | -2920.0 | 12653 | 10.0 | 162735.4 | -2920.3 | 12743 | 10.0 | 163328.2 | -2959.0 | 12833 | 9.4 | 163854.8 | -2939.8 |
| 12564 | 9.7 | 162054.2 | -2957.8 | 12654 | 9.7 | 162737.4 | -2950.3 | 12744 | 10.0 | 163330.3 | -2924.7 | 12834 | 9.6 | 163856.1 | -2908.5 |
| 12565 | 10.0 | 162055.7 | -2939.8 | 12655 | 9.2 | 162739.4 | -2948.6 | 12745 | 8.5 | 163331.7 | -2911.9 | 12835 | 10.0 | 163857.7 | -2923.5 |
| 12566 | 8.9 | 162059.0 | -2959.6 | 12656 | 9.8 | 162742.2 | -2954.2 | 12746 | 9.6 | 163335.4 | -2913.4 | 12836 | 8.0 | 163911.2 | -2920.9 |
| 12567 | 9.1 | 162104.0 | -2952.5 | 12657 | 10.0 | 162743.3 | -2921.7 | 12747 | 13.0 | 163335.4 | -2920.4 | 12837 | 9.9 | 163913.2 | -2953.0 |
| 12568 | 10.0 | 162114.4 | -2923.3 | 12658 | 10.0 | 162751.5 | -2909.9 | 12748 | 9.9 | 163335.3 | -2923.7 | 12838 | 9.9 | 163919.4 | -2935.2 |
| 12569 | 10.0 | 162120.2 | -2945.1 | 12659 | 9.6 | 162752.7 | -2951.5 | 12749 | 12.0 | 163335.5 | -2957.9 | 12839 | 9.8 | 163927.8 | -2932.8 |
| 12570 | 10.0 | 162134.5 | -2912.3 | 12660 | 9.5 | 162753.0 | -2903.9 | 12750 | 1.0 | 163404.5 | -2929.7 | 12840 | 9.7 | 163932.4 | -2959.3 |
| 12571 | 8.8 | 162136.3 | -2911.8 | 12661 | 10.0 | 162756.5 | -2942.1 | 12751 | 10.0 | 163408.3 | -2901.9 | 12841 | 9.8 | 163934.0 | -2958.2 |
| 12572 | 9.8 | 162146.7 | -2953.2 | 12662 | 9.7 | 162756.5 | -2912.9 | 12752 | 9.7 | 163411.0 | -2954.1 | 12842 | 9.9 | 163941.2 | -2904.5 |
| 12573 | 8.2 | 162147.1 | -2935.2 | 12663 | 9.3 | 162759.0 | -2934.6 | 12753 | 1.0 | 163416.6 | -2908.4 | 12843 | 10.0 | 163942.1 | -2927.5 |
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| 12575 | 10.0 | 162155.3 | -2911.8 | 12665 | 10.0 | 162805.8 | -2936.9 | 12755 | 10.0 | 163420.7 | -2950.7 | 12845 | 9.1 | 163947.1 | -2903.0 |
| 12576 | 8.5 | 162158.5 | -2947.3 | 12666 | 10.0 | 162806.3 | -2935.8 | 12756 | 9.8 | 163420.9 | -2927.8 | 12846 | 9.9 | 163950.6 | -2938.1 |
| 12577 | 9.6 | 162200.3 | -2945.2 | 12667 | 9.9 | 162806.4 | -2910.3 | 12757 | 9.9 | 163425.1 | -2936.2 | 12847 | 8.4 | 163951.3 | -2942.5 |
| 12578 | 10.0 | 162201.2 | -2921.3 | 12668 | 9.7 | 162808.0 | -2948.1 | 12758 | 9.1 | 163441.1 | -2923.7 | 12848 | 9.4 | 163952.7 | -2953.8 |
| 12579 | 10.0 | 162210.5 | -2909.8 | 12669 | 10.0 | 162813.1 | -2928.7 | 12759 | 9.4 | 163443.8 | -2912.4 | 12849 | 10.0 | 163955.3 | -2924.5 |
| 12580 | 9.7 | 162217.2 | -2921.5 | 12670 | 10.0 | 162815.2 | -2907.3 | 12760 | 9.3 | 163446.3 | -2936.2 | 12850 | 9.5 | 163956.9 | -2930.1 |
| 12581 | 9.9 | 162222.6 | -2955.8 | 12671 | 10.0 | 162818.8 | -2946.9 | 12761 | 8.7 | 163449.7 | -2929.0 | 12851 | 9.7 | 163959.3 | -2931.2 |
| 12582 | 9.9 | 162224.4 | -2909.3 | 12672 | 10.0 | 162822.6 | -2940.6 | 12762 | 9.7 | 163442.3 | -2934.5 | 12852 | 9.7 | 164000.4 | -2938.5 |
| 12583 | 9.9 | 162225.9 | -2911.8 | 12673 | 9.7 | 162832.6 | -2927.6 | 12763 | 9.3 | 163445.8 | -2944.7 | 12853 | 9.9 | 164005.2 | -2936.1 |
| 12584 | 10.0 | 162232.2 | -2947.8 | 12674 | 10.0 | 162833.5 | -2931.1 | 12764 | 9.9 | 163446.2 | -2923.7 | 12854 | 9.4 | 164007.2 | -2906.5 |
| 12585 | 10.0 | 162233.9 | -2918.8 | 12675 | 10.0 | 162839.3 | -2945.7 | 12765 | 9.6 | 163446.6 | -2926.2 | 12855 | 9.8 | 164018.1 | -2930.8 |
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| 12587 | 10.0 | 162242.0 | -2936.0 | 12677 | 9.7 | 162848.6 | -2928.2 | 12767 | 10.0 | 163452.4 | -2941.7 | 12857 | 10.0 | 164028.3 | -2923.3 |
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| 12589 | 9.6 | 162248.6 | -2940.8 | 12679 | 10.0 | 162859.5 | -2903.9 | 12769 | 10.0 | 163507.3 | -2908.0 | 12859 | 9.6 | 164036.0 | -2903.6 |
| 12590 | 7.4 | 162252.4 | -2912.3 | 12680 | 9.2 | 162908.1 | -2921.4 | 12770 | 8.7 | 163508.8 | -2913.0 | 12860 | 9.8 | 164037.2 | -2923.8 |
| 12591 | 9.7 | 162256.0 | -2953.3 | 12681 | 9.1 | 162909.8 | -2926.8 | 12771 | 10.0 | 163515.9 | -2903.0 | 12861 | 9.6 | 164039.5 | -2913.6 |
| 12592 | 10.0 | 162302.4 | -2930.1 | 12682 | 9.9 | 162911.4 | -2938.2 | 12772 | 9.2 | 163519.8 | -2958.8 | 12862 | 9.7 | 164043.4 | -2959.5 |
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-2912883 16h41m

-2913242 17h01m

| | | | | | | | | | | | | | | | |
|-------|------|----------|---------|-------|------|----------|---------|-------|------|----------|---------|-------|------|----------|---------|
| 12883 | 9.4 | 164123.3 | -2930.5 | 12973 | 10.0 | 164605.0 | -2945.2 | 13063 | 10.0 | 165049.0 | -2911.7 | 13153 | 8.7 | 165531.6 | -2957.8 |
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| 12889 | 10.0 | 164148.6 | -2914.4 | 12979 | 9.4 | 164614.4 | -2959.6 | 13069 | 10.0 | 165058.0 | -2911.2 | 13159 | 9.7 | 165549.9 | -2951.4 |
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| 12891 | 9.9 | 164154.2 | -2923.7 | 12981 | 9.8 | 164624.0 | -2918.4 | 13071 | 9.7 | 165111.3 | -2910.2 | 13161 | 9.9 | 165601.9 | -2901.1 |
| 12892 | 9.6 | 164158.8 | -2945.1 | 12982 | 10.0 | 164632.2 | -2934.1 | 13072 | 10.0 | 165112.4 | -2921.7 | 13162 | 8.4 | 165601.9 | -2954.2 |
| 12893 | 9.3 | 164159.0 | -2926.7 | 12983 | 9.9 | 164638.9 | -2932.1 | 13073 | 10.0 | 165113.9 | -2958.1 | 13163 | 9.9 | 165606.0 | -2920.9 |
| 12894 | 10.0 | 164200.2 | -2938.1 | 12984 | 9.4 | 164647.5 | -2956.1 | 13074 | 10.0 | 165114.0 | -2947.7 | 13164 | 9.3 | 165609.6 | -2931.0 |
| 12895 | 10.0 | 164208.5 | -2912.8 | 12985 | 9.2 | 164649.0 | -2907.4 | 13075 | 9.5 | 165115.4 | -2918.3 | 13165 | 10.0 | 165612.9 | -2906.3 |
| 12896 | 10.0 | 164210.2 | -2904.3 | 12986 | 9.7 | 164651.9 | -2903.9 | 13076 | 9.5 | 165118.9 | -2924.4 | 13166 | 9.7 | 165613.7 | -2907.8 |
| 12897 | 10.0 | 164211.0 | -2927.3 | 12987 | 10.0 | 164654.6 | -2947.1 | 13077 | 8.7 | 165119.9 | -2936.7 | 13167 | 9.5 | 165614.5 | -2932.3 |
| 12898 | 10.0 | 164212.7 | -2928.8 | 12988 | 10.0 | 164655.0 | -2916.9 | 13078 | 9.9 | 165127.7 | -2904.7 | 13168 | 10.0 | 165618.4 | -2948.5 |
| 12899 | 10.0 | 164216.5 | -2932.4 | 12989 | 9.9 | 164655.6 | -2932.4 | 13079 | 10.0 | 165131.3 | -2905.7 | 13169 | 9.5 | 165621.4 | -2932.5 |
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| 12901 | 9.9 | 164231.2 | -2947.6 | 12991 | 9.4 | 164657.7 | -2936.7 | 13081 | 9.9 | 165135.9 | -2940.6 | 13171 | 10.0 | 165627.9 | -2920.8 |
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-2914523 17h52m

-2914682 18h06m

| | | | |
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| 14323 10.0 175229.9 -2924.6 | 14413 10.0 175535.6 -2911.2 | 14503 9.6 175903.2 -2930.2 | 14593 10.0 180224.1 -2928.3 |
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-2915042 18h23m

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-2915043 18h23m

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-2915402 18h42m

-2915403 18h42m

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-2916122 19h18m

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|-------|------|----------|---------|-------|------|----------|---------|-------|------|----------|---------|-------|------|----------|---------|
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2117 10.0 45441.6 -3052.4

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2121 10.0 45458.7 -3040.2
2122 9.6 45459.1 -3053.9
2123 10.0 45459.5 -3003.1
2124 10.0 45453.0 -3041.8
2125 9.0 45529.8 -3047.9
2126 10.0 45532.8 -3031.3
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2136 9.7 45605.8 -3037.5
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2138 9.7 45621.3 -3056.4
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2144 10.0 45634.6 -3013.6
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2148 10.0 45641.8 -3026.1
2149 10.0 45649.0 -3025.1
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2156 9.8 45720.7 -3030.6
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2158 9.7 45738.6 -3050.8
2159 10.0 45741.7 -3033.1
2160 8.7 45746.5 -3019.6
2161 10.0 45750.8 -3050.3
2162 9.6 45804.1 -3023.6
2163 10.0 45804.7 -3008.6
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2166 9.3 45823.5 -3001.8
2167 8.5 45826.5 -3040.8

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2169 10.0 45849.6 -3032.3
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2173 10.0 45910.0 -3034.2
2174 9.1 45916.4 -3006.1
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2180 10.0 45949.5 -3003.4
2181 10.0 45955.1 -3034.6
2182 8.5 45956.8 -3054.8
2183 9.9 45958.5 -3001.2
2184 9.4 50003.3 -3042.5
2185 10.0 50011.0 -3059.8
2186 9.7 50014.9 -3005.1
2187 9.4 50018.3 -3003.1

2188 10.0 50030.6 -3001.6
2189 10.0 50105.2 -3052.8
2190 10.0 50117.6 -3013.1
2191 10.0 50118.4 -3053.3
2192 9.1 50124.3 -3034.9
2193 10.0 50136.8 -3028.6
2194 9.6 50143.6 -3056.4
2195 10.0 50149.1 -3044.3
2196 10.0 50150.0 -3053.4
2197 10.0 50150.2 -3011.6

-30 2197 5h01m

| | | | | | | | | | | | |
|-----------|---------|---------|-----------|---------|---------|-----------|---------|---------|-----------|---------|---------|
| 2198 9.4 | 50156.3 | -3010.6 | 2288 9.7 | 51120.4 | -3051.7 | 2378 9.0 | 52109.6 | -3006.1 | 2468 10.0 | 52807.8 | -3017.4 |
| 2199 10.0 | 50159.2 | -3053.8 | 2289 8.3 | 51137.7 | -3000.7 | 2379 9.6 | 52118.6 | -3038.7 | 2469 9.9 | 52808.5 | -3013.4 |
| 2200 10.0 | 50208.6 | -3041.5 | 2290 10.0 | 51147.1 | -3014.2 | 2380 8.3 | 52118.9 | -3007.1 | 2470 10.0 | 52814.4 | -3000.4 |
| 2201 9.6 | 50212.0 | -3010.6 | 2291 8.2 | 51149.1 | -3030.6 | 2381 9.9 | 52121.2 | -3003.9 | 2471 10.0 | 52815.6 | -3040.0 |
| 2202 10.0 | 50220.8 | -3042.9 | 2292 10.0 | 51157.1 | -3042.1 | 2382 8.8 | 52121.2 | -3021.8 | 2472 10.0 | 52819.8 | -3009.0 |
| 2203 8.9 | 50235.2 | -3043.3 | 2293 9.9 | 51201.2 | -3046.0 | 2383 9.6 | 52123.0 | -3015.4 | 2473 10.0 | 52822.0 | -3007.4 |
| 2204 10.0 | 50237.0 | -3048.8 | 2294 9.2 | 51207.8 | -3002.1 | 2384 10.0 | 52127.8 | -3003.3 | 2474 9.5 | 52825.3 | -3039.5 |
| 2205 8.5 | 50245.3 | -3047.8 | 2295 9.4 | 51211.4 | -3011.2 | 2385 10.0 | 52131.2 | -3011.6 | 2475 9.4 | 52828.6 | -3044.4 |
| 2206 10.0 | 50251.0 | -3051.8 | 2296 9.4 | 51227.8 | -3014.6 | 2386 9.2 | 52133.2 | -3033.6 | 2476 10.0 | 52830.6 | -3038.2 |
| 2207 9.4 | 50256.8 | -3015.1 | 2297 8.5 | 51229.2 | -3056.4 | 2387 9.4 | 52137.7 | -3023.3 | 2477 9.5 | 52832.6 | -3035.0 |
| 2208 9.0 | 50300.8 | -3056.2 | 2298 10.0 | 51234.0 | -3039.1 | 2388 10.0 | 52141.6 | -3036.6 | 2478 9.5 | 52836.9 | -3046.5 |
| 2209 10.0 | 50314.6 | -3001.1 | 2299 9.7 | 51239.9 | -3057.7 | 2389 9.6 | 52142.8 | -3035.1 | 2479 8.3 | 52838.4 | -3051.0 |
| 2210 10.0 | 50316.3 | -3043.2 | 2300 9.8 | 51241.2 | -3003.7 | 2390 8.5 | 52159.6 | -3041.0 | 2480 10.0 | 52844.8 | -3025.0 |
| 2211 9.2 | 50320.0 | -3041.4 | 2301 10.0 | 51248.0 | -3022.2 | 2391 9.8 | 52201.8 | -3044.4 | 2481 9.3 | 52850.0 | -3042.9 |
| 2212 9.0 | 50338.4 | -3058.2 | 2302 10.0 | 51249.6 | -3059.3 | 2392 9.7 | 52213.1 | -3034.8 | 2482 9.8 | 52853.1 | -3039.4 |
| 2213 9.6 | 50345.0 | -3012.2 | 2303 10.0 | 51254.6 | -3020.2 | 2393 9.8 | 52213.4 | -3003.3 | 2483 7.7 | 52902.2 | -3002.2 |
| 2214 10.0 | 50349.6 | -3024.2 | 2304 10.0 | 51255.8 | -3005.0 | 2394 9.4 | 52214.4 | -3053.6 | 2484 9.6 | 52904.7 | -3017.4 |
| 2215 8.0 | 50356.5 | -3019.6 | 2305 9.0 | 51307.3 | -3015.6 | 2395 10.0 | 52218.3 | -3038.6 | 2485 9.9 | 52905.2 | -3031.4 |
| 2216 8.7 | 50357.2 | -3052.8 | 2306 7.7 | 51313.6 | -3008.2 | 2396 9.4 | 52223.4 | -3015.6 | 2486 9.9 | 52910.0 | -3050.4 |
| 2217 9.9 | 50400.1 | -3059.7 | 2307 10.0 | 51319.0 | -3025.1 | 2397 9.1 | 52225.0 | -3023.3 | 2487 9.6 | 52917.8 | -3019.0 |
| 2218 9.6 | 50402.4 | -3042.2 | 2308 9.9 | 51328.3 | -3020.6 | 2398 9.7 | 52232.0 | -3008.8 | 2488 9.7 | 52918.7 | -3058.4 |
| 2219 9.9 | 50407.1 | -3022.2 | 2309 10.0 | 51329.6 | -3010.2 | 2399 8.7 | 52240.2 | -3004.2 | 2489 10.0 | 52920.7 | -3020.0 |
| 2220 9.1 | 50417.3 | -3042.4 | 2310 10.0 | 51338.4 | -3010.6 | 2400 9.4 | 52246.6 | -3011.0 | 2490 10.0 | 52924.7 | -3031.4 |
| 2221 10.0 | 50419.9 | -3031.6 | 2311 10.0 | 51352.3 | -3056.4 | 2401 10.0 | 52251.5 | -3040.8 | 2491 10.0 | 52925.3 | -3032.3 |
| 2222 9.1 | 50431.6 | -3055.8 | 2312 10.0 | 51401.3 | -3053.2 | 2402 9.5 | 52252.2 | -3003.9 | 2492 10.0 | 52926.8 | -3042.0 |
| 2223 10.0 | 50431.6 | -3055.8 | 2313 10.0 | 51404.7 | -3017.6 | 2403 9.6 | 52301.8 | -3015.5 | 2493 9.7 | 52936.4 | -3040.2 |
| 2224 8.8 | 50450.1 | -3000.8 | 2314 10.0 | 51412.8 | -3050.0 | 2404 9.9 | 52302.2 | -3025.5 | 2494 8.6 | 52936.4 | -3058.4 |
| 2225 10.0 | 50456.0 | -3015.2 | 2315 9.9 | 51416.5 | -3031.6 | 2405 10.0 | 52307.0 | -3037.4 | 2495 9.7 | 52937.0 | -3021.0 |
| 2226 10.0 | 50502.0 | -3045.8 | 2316 10.0 | 51426.5 | -3059.9 | 2406 9.7 | 52310.4 | -3016.5 | 2496 9.0 | 52943.7 | -3050.4 |
| 2227 10.0 | 50502.8 | -3041.6 | 2317 10.0 | 51428.0 | -3030.6 | 2407 10.0 | 52315.6 | -3032.0 | 2497 9.9 | 52944.8 | -3014.5 |
| 2228 9.6 | 50512.3 | -3031.2 | 2318 10.0 | 51431.2 | -3055.4 | 2408 10.0 | 52317.6 | -3029.5 | 2498 10.0 | 52946.4 | -3006.0 |
| 2229 8.6 | 50550.6 | -3014.2 | 2319 9.1 | 51436.2 | -3015.6 | 2409 8.7 | 52320.2 | -3014.5 | 2499 8.5 | 52947.3 | -3048.0 |
| 2230 10.0 | 50606.0 | -3025.6 | 2320 9.1 | 51443.6 | -3012.6 | 2410 8.3 | 52323.8 | -3007.0 | 2500 10.0 | 52955.3 | -3025.4 |
| 2231 8.9 | 50610.4 | -3059.8 | 2321 9.5 | 51444.8 | -3034.8 | 2411 10.0 | 52329.2 | -3002.9 | 2501 9.7 | 52955.8 | -3051.0 |
| 2232 7.0 | 50641.0 | -3022.6 | 2322 9.9 | 51449.4 | -3048.5 | 2412 10.0 | 52337.4 | -3039.6 | 2502 9.9 | 53001.4 | -3033.7 |
| 2233 9.6 | 50643.9 | -3050.8 | 2323 9.7 | 51452.2 | -3013.6 | 2413 9.9 | 52338.2 | -3014.0 | 2503 9.9 | 53002.9 | -3029.7 |
| 2234 10.0 | 50705.7 | -3006.1 | 2324 10.0 | 51453.9 | -3050.2 | 2414 9.1 | 52344.3 | -3005.0 | 2504 9.7 | 53017.9 | -3050.5 |
| 2235 9.4 | 50706.2 | -3035.5 | 2325 9.7 | 51503.8 | -3037.4 | 2415 10.0 | 52346.8 | -3021.5 | 2505 10.0 | 53018.6 | -3027.4 |
| 2236 8.8 | 50708.8 | -3042.7 | 2326 9.8 | 51520.8 | -3051.2 | 2416 10.0 | 52347.6 | -3046.6 | 2506 9.9 | 53021.8 | -3022.9 |
| 2237 8.4 | 50710.7 | -3037.0 | 2327 10.0 | 51531.0 | -3024.2 | 2417 9.7 | 52354.9 | -3024.5 | 2507 9.9 | 53024.9 | -3013.4 |
| 2238 9.7 | 50712.2 | -3017.2 | 2328 10.0 | 51538.2 | -3022.2 | 2418 10.0 | 52400.6 | -3053.0 | 2508 9.9 | 53040.2 | -3047.9 |
| 2239 9.9 | 50715.6 | -3022.6 | 2329 10.0 | 51540.3 | -3047.5 | 2419 9.9 | 52402.0 | -3016.5 | 2509 9.4 | 53042.5 | -3031.9 |
| 2240 9.6 | 50726.6 | -3004.1 | 2330 9.4 | 51545.1 | -3044.2 | 2420 9.9 | 52409.0 | -3005.0 | 2510 9.6 | 53045.6 | -3005.1 |
| 2241 7.9 | 50738.1 | -3007.2 | 2331 8.3 | 51549.2 | -3003.0 | 2421 6.9 | 52419.6 | -3013.5 | 2511 9.4 | 53045.8 | -3001.1 |
| 2242 10.0 | 50745.0 | -3042.2 | 2332 10.0 | 51552.1 | -3053.5 | 2422 10.0 | 52421.4 | -3023.0 | 2512 8.5 | 53059.4 | -3054.4 |
| 2243 10.0 | 50746.3 | -3019.6 | 2333 9.8 | 51553.9 | -3039.4 | 2423 9.5 | 52426.1 | -3038.4 | 2513 7.7 | 53110.3 | -3037.1 |
| 2244 9.7 | 50746.4 | -3001.1 | 2334 9.7 | 51557.8 | -3005.6 | 2424 10.0 | 52426.4 | -3033.1 | 2514 9.4 | 53112.9 | -3056.9 |
| 2245 10.0 | 50803.9 | -3016.2 | 2335 10.0 | 51600.2 | -3025.2 | 2425 9.6 | 52438.2 | -3012.5 | 2515 9.9 | 53129.2 | -3024.9 |
| 2246 9.9 | 50820.0 | -3051.7 | 2336 9.6 | 51612.9 | -3006.6 | 2426 10.0 | 52450.2 | -3014.0 | 2516 10.0 | 53133.8 | -3028.4 |
| 2247 10.0 | 50821.8 | -3013.1 | 2337 10.0 | 51614.9 | -3021.2 | 2427 9.6 | 52457.3 | -3040.0 | 2517 10.0 | 53144.6 | -3035.4 |
| 2248 9.8 | 50822.6 | -3041.2 | 2338 7.2 | 51622.7 | -3012.2 | 2428 9.3 | 52458.0 | -3021.0 | 2518 8.7 | 53144.7 | -3014.9 |
| 2249 9.0 | 50828.2 | -3024.1 | 2339 9.7 | 51625.9 | -3005.0 | 2429 10.0 | 52509.8 | -3057.0 | 2519 9.6 | 53151.4 | -3057.4 |
| 2250 9.1 | 50834.2 | -3031.5 | 2340 9.7 | 51628.2 | -3030.6 | 2430 10.0 | 52516.0 | -3012.0 | 2520 10.0 | 53159.1 | -3009.9 |
| 2251 9.8 | 50839.9 | -3010.2 | 2341 10.0 | 51636.1 | -3006.2 | 2431 9.0 | 52517.1 | -3029.8 | 2521 10.0 | 53159.8 | -3054.9 |
| 2252 9.8 | 50842.6 | -3002.1 | 2342 10.0 | 51641.0 | -3014.2 | 2432 10.0 | 52520.0 | -3026.0 | 2522 10.0 | 53201.8 | -3057.4 |
| 2253 10.0 | 50847.8 | -3052.2 | 2343 9.6 | 51641.2 | -3025.6 | 2433 10.0 | 52520.0 | -3015.5 | 2523 9.7 | 53203.6 | -3018.4 |
| 2254 9.5 | 50850.5 | -3003.1 | 2344 9.7 | 51652.4 | -3058.5 | 2434 9.9 | 52524.6 | -3035.5 | 2524 9.6 | 53206.0 | -3049.4 |
| 2255 9.3 | 50854.3 | -3040.4 | 2345 8.8 | 51652.7 | -3045.5 | 2435 9.4 | 52527.0 | -3032.0 | 2525 10.0 | 53212.4 | -3042.9 |
| 2256 10.0 | 50854.3 | -3048.3 | 2346 8.7 | 51715.4 | -3014.2 | 2436 10.0 | 52536.4 | -3055.5 | 2526 8.7 | 53213.9 | -3031.7 |
| 2257 8.5 | 50856.7 | -3042.4 | 2347 9.4 | 51716.4 | -3053.9 | 2437 9.4 | 52542.8 | -3056.5 | 2527 9.9 | 53214.6 | -3042.9 |
| 2258 10.0 | 50908.5 | -3035.1 | 2348 9.7 | 51718.0 | -3031.0 | 2438 10.0 | 52547.8 | -3037.3 | 2528 9.6 | 53223.2 | -3041.7 |
| 2259 10.0 | 50915.0 | -3007.2 | 2349 9.9 | 51724.0 | -3011.2 | 2439 10.0 | 52557.0 | -3003.4 | 2529 9.9 | 53236.4 | -3058.3 |
| 2260 10.0 | 50925.8 | -3034.2 | 2350 9.1 | 51725.6 | -3042.0 | 2440 10.0 | 52558.2 | -3013.4 | 2530 10.0 | 53241.8 | -3048.3 |
| 2261 9.9 | 50928.8 | -3034.9 | 2351 9.8 | 51733.1 | -3050.7 | 2441 9.4 | 52601.1 | -3050.5 | 2531 9.3 | 53242.4 | -3021.7 |
| 2262 10.0 | 50933.2 | -3032.7 | 2352 9.7 | 51734.4 | -3038.7 | 2442 9.5 | 52601.2 | -3005.2 | 2532 10.0 | 53248.6 | -3037.9 |
| 2263 9.0 | 50933.6 | -3024.2 | 2353 10.0 | 51806.6 | -3011.2 | 2443 9.5 | 52609.8 | -3020.0 | 2533 9.6 | 53254.3 | -3000.4 |
| 2264 10.0 | 50935.8 | -3056.4 | 2354 10.0 | 51809.7 | -3029.9 | 2444 9.9 | 52615.3 | -3003.2 | 2534 9.9 | 53256.2 | -3042.9 |
| 2265 9.4 | 50937.4 | -3029.5 | 2355 8.7 | 51810.5 | -3043.2 | 2445 9.0 | 52629.0 | -3047.5 | 2535 10.0 | 53303.9 | -3014.9 |
| 2266 9.4 | 50942.4 | -3036.1 | 2356 9.4 | 51815.6 | -3039.8 | 2446 9.8 | 52630.0 | -3032.7 | 2536 9.7 | 53311.2 | -3020.9 |
| 2267 10.0 | 50947.9 | -3015.2 | 2357 10.0 | 51820.1 | -3039.5 | 2447 9.8 | 52633.5 | -3030.5 | 2537 8.0 | 53313.5 | -3034.9 |
| 2268 10.0 | 50952.2 | -3034.2 | 2358 10.0 | 51826.6 | -3056.2 | 2448 9.8 | 52641.2 | -3026.0 | 2538 9.5 | 53315.1 | -3005.1 |
| 2269 9.0 | 50953.2 | -3046.6 | 2359 10.0 | 51833.5 | -3013.2 | 2449 9.4 | 52648.4 | -3034.0 | 2539 8.6 | 53318.2 | -3010.9 |
| 2270 10.0 | 50955.2 | -3056.9 | 2360 9.1 | 51833.5 | -3021.2 | 2450 9.6 | 52648.7 | -3013.0 | 2540 10.0 | 53324.3 | -3023.7 |
| 2271 9.7 | 51000.6 | -3014.2 | 2361 9.9 | 51841.3 | -3021.6 | 2451 9.4 | 52648.9 | -3051.0 | 2541 10.0 | 53327.4 | -3000.9 |
| 2272 10.0 | 51004.6 | -3038.5 | 2362 10.0 | 51905.8 | -3008.2 | 2452 8.0 | 52650.7 | -3057.5 | 2542 10.0 | 53331.8 | -3041.4 |
| 2273 10.0 | 51009.6 | -3054.6 | 2363 10.0 | 51910.9 | -3035.4 | 2453 9.9 | 52653.7 | -3014.4 | 2543 10.0 | 53340.2 | -3032.7 |
| 2274 10.0 | 51011.5 | -3056.4 | 2364 10.0 | 51927.2 | -3036.8 | 2454 9.1 | 52712.2 | -3056.5 | 2544 10.0 | 53349.5 | -3053.9 |
| 2275 10.0 | 51015.1 | -3038.7 | 2365 10.0 | 51935.1 | -3034.4 | 2455 9.6 | 52714.8 | -3031.5 | 2545 10.0 | 53400.5 | -3019.9 |
| 2276 9.9 | 51022.5 | -3019.6 | 2366 10.0 | 51935.2 | -3050.6 | 2456 9.7 | 52718.8 | -3010.4 | 2546 10.0 | 53401.6 | -3035.1 |
| 2277 8.7 | 51025.8 | -3015.2 | 2367 8.7 | 51936.2 | -3025.6 | 2457 9.6 | 52720.3 | -3018.0 | 2547 10.0 | 53404.5 | -3003.4 |
| 2278 8.7 | 51027.5 | -3022.6 | 2368 9.7 | 51945.6 | -3008.2 | 2458 9.5 | 52724.0 | -3001.8 | 2548 9.7 | 53408.1 | -3042.1 |
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-30 2558 5h35m

2558 9.6 53543.2 -3034.6
2559 8.7 53544.5 -3047.3
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2572 10.0 53726.2 -3016.3
2573 9.8 53738.8 -3040.7
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2575 9.7 53810.8 -3000.4
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2591 9.3 54011.7 -3025.4
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2595 8.5 54049.1 -3035.1
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2598 9.3 54101.6 -3002.7
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2611 9.7 54151.5 -3016.8
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2613 9.7 54155.8 -3047.2
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2616 9.6 54209.2 -3051.2
2617 9.2 54221.3 -3036.0

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| 2965 9.1 | 61031.6 | -3028.8 | 3055 10.0 | 61624.5 | -3035.4 | 3145 10.0 | 62050.0 | -3022.8 | 3235 10.0 | 62551.6 | -3037.7 |
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| 2970 10.0 | 61046.3 | -3037.9 | 3060 9.1 | 61646.9 | -3021.0 | 3150 9.9 | 62102.6 | -3049.9 | 3240 10.0 | 62608.4 | -3039.2 |
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-30 3637 6h48m

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| 4410 | 9.9 | 71808.1 | -3037.0 | 4500 | 10.0 | 72144.5 | -3057.6 | 4590 | 10.0 | 72453.9 | -3003.3 | 4680 | 9.9 | 72805.0 | -3032.0 |
| 4411 | 10.0 | 71812.8 | -3042.8 | 4501 | 9.3 | 72148.2 | -3009.8 | 4591 | 10.0 | 72456.1 | -3056.6 | 4681 | 9.3 | 72806.4 | -3000.3 |
| 4412 | 9.9 | 71815.1 | -3033.0 | 4502 | 9.9 | 72149.5 | -3028.3 | 4592 | 10.0 | 72457.3 | -3017.3 | 4682 | 9.8 | 72814.0 | -3052.8 |
| 4413 | 10.0 | 71815.4 | -3004.4 | 4503 | 9.3 | 72149.8 | -3007.3 | 4593 | 10.0 | 72457.4 | -3002.3 | 4683 | 10.0 | 72814.1 | -3028.1 |
| 4414 | 10.0 | 71817.2 | -3031.0 | 4504 | 10.0 | 72150.3 | -3050.8 | 4594 | 10.0 | 72458.4 | -3038.9 | 4684 | 10.0 | 72816.1 | -3002.2 |
| 4415 | 10.0 | 71822.0 | -3036.5 | 4505 | 10.0 | 72151.5 | -3052.8 | 4595 | 9.3 | 72502.6 | -3046.4 | 4685 | 9.4 | 72818.0 | -3018.3 |
| 4416 | 10.0 | 71822.3 | -3005.9 | 4506 | 9.8 | 72153.1 | -3017.8 | 4596 | 10.0 | 72503.9 | -3052.8 | 4686 | 10.0 | 72818.9 | -3048.2 |
| 4417 | 9.6 | 71823.4 | -3049.2 | 4507 | 10.0 | 72154.0 | -3025.0 | 4597 | 10.0 | 72505.6 | -3054.8 | 4687 | 9.7 | 72819.3 | -3020.8 |
| 4418 | 9.5 | 71825.3 | -3030.7 | 4508 | 10.0 | 72154.9 | -3044.6 | 4598 | 8.9 | 72511.8 | -3025.7 | 4688 | 9.8 | 72820.3 | -3057.9 |
| 4419 | 9.4 | 71828.6 | -3058.2 | 4509 | 10.0 | 72156.3 | -3023.3 | 4599 | 9.5 | 72513.7 | -3058.6 | 4689 | 10.0 | 72823.1 | -3036.0 |
| 4420 | 10.0 | 71829.4 | -3008.9 | 4510 | 10.0 | 72157.2 | -3000.3 | 4600 | 10.0 | 72516.4 | -3038.9 | 4690 | 10.0 | 72826.0 | -3056.8 |
| 4421 | 9.6 | 71832.6 | -3042.5 | 4511 | 9.9 | 72159.4 | -3058.4 | 4601 | 10.0 | 72519.7 | -3052.4 | 4691 | 10.0 | 72826.1 | -3005.2 |
| 4422 | 10.0 | 71832.8 | -3055.5 | 4512 | 10.0 | 72200.4 | -3019.8 | 4602 | 10.0 | 72522.0 | -3057.8 | 4692 | 10.0 | 72826.1 | -3047.1 |
| 4423 | 10.0 | 71835.3 | -3012.4 | 4513 | 10.0 | 72201.7 | -3011.3 | 4603 | 9.5 | 72522.1 | -3039.9 | 4693 | 10.0 | 72827.4 | -3006.2 |
| 4424 | 9.1 | 71835.5 | -3007.8 | 4514 | 9.5 | 72203.2 | -3032.4 | 4604 | 10.0 | 72522.9 | -3008.8 | 4694 | 10.0 | 72827.6 | -3056.2 |
| 4425 | 10.0 | 71838.8 | -3046.8 | 4515 | 10.0 | 72203.6 | -3009.8 | 4605 | 9.9 | 72524.9 | -3030.0 | 4695 | 9.3 | 72833.0 | -3034.0 |
| 4426 | 10.0 | 71846.1 | -3020.3 | 4516 | 9.7 | 72204.7 | -3038.4 | 4606 | 9.7 | 72526.5 | -3042.1 | 4696 | 9.5 | 72834.2 | -3039.5 |
| 4427 | 7.3 | 71848.2 | -3012.3 | 4517 | 10.0 | 72204.8 | -3058.1 | 4607 | 10.0 | 72526.7 | -3031.0 | 4697 | 9.3 | 72835.8 | -3026.1 |
| 4428 | 9.1 | 71850.5 | -3051.2 | 4518 | 10.0 | 72206.8 | -3026.2 | 4608 | 9.3 | 72531.8 | -3006.3 | 4698 | 10.0 | 72837.8 | -3019.6 |
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-30 4718 7h29m

4718 10.0 72913.6 -3043.2
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4721 10.0 72918.0 -3053.3
4722 10.0 72918.6 -3045.2
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-30 5077 7h41m

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11521 8.6 142555.0 -3020.5
11522 8.8 142556.5 -3024.8
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11527 9.7 142632.4 -3049.2

11528 8.8 142634.0 -3004.1
11529 9.5 142634.9 -3012.5
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11544 9.7 142751.4 -3025.3
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11549 10.0 142816.8 -3005.7
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11554 9.9 142834.2 -3034.3
11555 10.0 142853.4 -3058.0
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11557 9.4 142903.3 -3023.5

-3011558 14h29m

-3011917 14h55m

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| 11558 9.7 142905.4 -3014.2 | 11648 9.4 143559.5 -3006.7 | 11738 9.7 144218.7 -3049.6 | 11828 10.0 144853.5 -3057.1 |
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| 11573 9.3 143019.0 -3024.8 | 11663 9.5 143652.4 -3021.3 | 11753 10.0 144317.1 -3021.5 | 11843 9.2 145000.3 -3052.3 |
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| 11590 9.7 143135.1 -3031.2 | 11680 9.8 143803.1 -3026.0 | 11770 10.0 144422.9 -3025.8 | 11860 10.0 145120.3 -3059.5 |
| 11591 10.0 143136.5 -3009.3 | 11681 9.6 143804.9 -3006.3 | 11771 9.5 144424.9 -3037.3 | 11861 9.3 145126.9 -3006.1 |
| 11592 10.0 143139.3 -3027.5 | 11682 9.6 143814.0 -3054.3 | 11772 10.0 144438.4 -3012.4 | 11862 9.7 145133.2 -3009.2 |
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| 11598 9.3 143202.5 -3025.4 | 11688 9.9 143844.1 -3055.7 | 11778 10.0 144457.8 -3022.9 | 11868 9.5 145152.2 -3038.4 |
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| 11603 9.7 143216.1 -3006.6 | 11693 10.0 143903.1 -3010.6 | 11783 10.0 144511.3 -3018.7 | 11873 10.0 145211.7 -3041.1 |
| 11604 8.6 143231.0 -3015.6 | 11694 9.8 143905.2 -3016.3 | 11784 8.0 144520.1 -3031.5 | 11874 9.8 145212.6 -3045.8 |
| 11605 10.0 143238.5 -3044.8 | 11695 10.0 143907.5 -3020.4 | 11785 9.5 144528.1 -3051.1 | 11875 10.0 145231.9 -3029.4 |
| 11606 9.8 143247.1 -3054.6 | 11696 9.3 143907.7 -3013.1 | 11786 9.8 144531.7 -3037.5 | 11876 10.0 145237.3 -3035.8 |
| 11607 10.0 143300.3 -3016.0 | 11697 8.9 143913.6 -3056.6 | 11787 9.6 144534.1 -3008.7 | 11877 9.0 145240.8 -3042.4 |
| 11608 10.0 143300.9 -3052.0 | 11698 10.0 143913.9 -3017.7 | 11788 10.0 144535.5 -3006.1 | 11878 10.0 145243.0 -3016.1 |
| 11609 10.0 143316.8 -3043.9 | 11699 10.0 143914.6 -3045.8 | 11789 9.3 144538.2 -3057.8 | 11879 10.0 145244.4 -3051.8 |
| 11610 9.1 143322.2 -3031.3 | 11700 10.0 143928.5 -3058.9 | 11790 9.5 144543.9 -3013.3 | 11880 10.0 145251.2 -3002.7 |
| 11611 10.0 143324.2 -3052.1 | 11701 10.0 143932.2 -3054.7 | 11791 9.8 144606.0 -3008.6 | 11881 9.9 145253.0 -3013.1 |
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| 11618 9.8 143401.8 -3019.0 | 11708 10.0 144031.6 -3033.0 | 11798 10.0 144639.7 -3004.0 | 11888 10.0 145341.6 -3014.1 |
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| 11620 9.6 143408.5 -3001.0 | 11710 9.9 144038.0 -3046.7 | 11800 10.0 144653.6 -3014.5 | 11890 9.9 145347.7 -3031.9 |
| 11621 9.6 143409.4 -3045.9 | 11711 9.9 144041.4 -3037.8 | 11801 9.6 144654.1 -3003.0 | 11891 9.9 145352.2 -3045.8 |
| 11622 9.6 143413.1 -3005.6 | 11712 9.5 144044.1 -3057.0 | 11802 9.8 144659.4 -3044.3 | 11892 9.3 145357.1 -3039.4 |
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| 11626 9.7 143430.6 -3027.1 | 11716 9.9 144059.6 -3006.4 | 11806 9.8 144719.8 -3026.5 | 11896 9.7 145404.3 -3001.0 |
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| 11628 9.6 143435.1 -3055.9 | 11718 9.1 144104.0 -3002.5 | 11808 9.8 144724.2 -3021.4 | 11898 9.2 145408.3 -3012.6 |
| 11629 9.5 143436.2 -3035.4 | 11719 9.9 144107.2 -3047.1 | 11809 9.8 144731.2 -3034.8 | 11899 9.6 145416.9 -3001.6 |
| 11630 9.3 143437.2 -3046.1 | 11720 9.6 144108.3 -3048.3 | 11810 9.6 144732.2 -3024.1 | 11900 10.0 145417.6 -3020.1 |
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-3011918 14h55m

-3012277 15h22m

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| 11937 10.0 145705.4 -3022.3 | 12027 9.7 150442.8 -3029.8 | 12117 7.0 151102.2 -3045.4 | 12207 10.0 151709.5 -3042.4 |
| 11938 8.8 145707.5 -3001.4 | 12028 9.2 150449.1 -3040.9 | 12118 9.2 151108.7 -3022.2 | 12208 9.7 151716.3 -3048.5 |
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-3015157 17h55m

-3015158 17h55m

-3015517 18h10m

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-3018037 20h28m

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-3018038 20h29m

-3018397 21h00m

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-3018398 21h00m

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| 13. ABSTRACT (Maximum 200 words) <p>The "Cordoba Durchmusterung" (CD, Thome 1892-1932) is a visual survey of southern stars in the declination zones -22 to -89 deg, carried out as an extension to the "Bonner Durchmusterung" (BD) catalogs of Argelander (1859-1862) (see also Kuestner, 1903) and Schoenfeld (1886). This volume covers the declination range -22° through -30°. The survey was performed using techniques similar to those used for the BD; i.e., the stars were cataloged by allowing the telescope to drift along the mean declination of each zone and recording the positions and magnitudes of stars crossing the transit line of the field. The goal of the survey was to obtain a position and estimated visual magnitude for every star down to 10.0 magnitude inclusive, but the faint limit was confirmed from comparisons with other catalogs, to be somewhat below 10. The positions are given to 0.1' in right ascension and 0.1' in declination for the equinox 1875. The positional uncertainties quoted in the original publications are $\pm 0.42''$ and $\pm 0.23''$ for zones -22° to -32°.</p> <p>A list of all corrections made to the original data as a result of published corrigenda is presented. No other corrections or changes have been incorporated into the original data, e.g., from more modern positions and magnitudes or comparison with the "Cape Photographic Durchmusterung" (Gill and Kapteyn, 1895-1900).</p> | | | | |
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```

1  #!/usr/bin/perl
2
3  use strict;
4  use warnings;
5
6  my $VERSION = "1.0.0";
7
8  my $help = "
9  Usage: perl script.pl [options]
10
11  Options:
12  -h, --help            Display this help message
13  -v, --version         Display version information
14  -f, --file FILE       Input file
15  -o, --output FILE     Output file
16  -d, --debug            Enable debug mode
17  -q, --quiet           Suppress progress messages
18  -s, --size SIZE       File size in bytes
19  -t, --type TYPE       File type
20  -m, --mode MODE       File mode
21  -u, --user USER       Username
22  -g, --group GROUP     Group name
23  -p, --perms PERMS     Permissions
24  -c, --checksum CHECKSUM Checksum
25  -e, --encoding ENCODING Encoding
26  -i, --ignore IGNORE    Ignore errors
27  -r, --recursive       Recursive
28  -x, --exclude EXCLUDE Exclude
29  -y, --yes             Assume yes
30  -n, --no              Assume no
31  -w, --wait WAIT       Wait time
32  -z, --zero            Zero padding
33  -b, --base BASE       Base
34  -k, --key KEY         Key
35  -l, --length LENGTH   Length
36  -M, --max MAX         Max
37  -n, --min MIN         Min
38  -r, --range RANGE     Range
39  -s, --start START     Start
40  -e, --end END         End
41  -f, --from FROM       From
42  -t, --to TO           To
43  -u, --until UNTIL     Until
44  -s, --since SINCE     Since
45  -b, --before BEFORE   Before
46  -a, --after AFTER     After
47  -l, --limit LIMIT     Limit
48  -o, --offset OFFSET   Offset
49  -p, --padding PADDING Padding
50  -f, --format FORMAT   Format
51  -d, --delimiter DELIMITER Delimiter
52  -e, --escape ESCAPE   Escape
53  -i, --indent INDENT   Indent
54  -t, --tabstop TABSTOP Tabstop
55  -w, --width WIDTH     Width
56  -l, --lines LINES     Lines
57  -p, --pages PAGES     Pages
58  -f, --font FONT       Font
59  -s, --size SIZE       Size
60  -c, --color COLOR     Color
61  -b, --background BACKGROUND Background
62  -f, --face FACE       Face
63  -s, --style STYLE     Style
64  -w, --weight WEIGHT    Weight
65  -t, --text TEXT       Text
66  -a, --align ALIGN     Align
67  -v, --vertical VERTICAL Vertical
68  -h, --horizontal HORIZONTAL Horizontal
69  -f, --float FLOAT     Float
70  -i, --integer INTEGER Integer
71  -d, --decimal DECIMAL Decimal
72  -e, --exponent EXPONENT Exponent
73  -f, --fraction FRACTION Fraction
74  -p, --percentage PERCENTAGE Percentage
75  -t, --time TIME       Time
76  -d, --date DATE       Date
77  -t, --time TIME       Time
78  -d, --date DATE       Date
79  -t, --time TIME       Time
80  -d, --date DATE       Date
81  -t, --time TIME       Time
82  -d, --date DATE       Date
83  -t, --time TIME       Time
84  -d, --date DATE       Date
85  -t, --time TIME       Time
86  -d, --date DATE       Date
87  -t, --time TIME       Time
88  -d, --date DATE       Date
89  -t, --time TIME       Time
90  -d, --date DATE       Date
91  -t, --time TIME       Time
92  -d, --date DATE       Date
93  -t, --time TIME       Time
94  -d, --date DATE       Date
95  -t, --time TIME       Time
96  -d, --date DATE       Date
97  -t, --time TIME       Time
98  -d, --date DATE       Date
99  -t, --time TIME       Time
100 -d, --date DATE       Date

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